REMOVAL ACTION SUMMARY REPORT

FORMER GST STEEL SITE Kansas City, Missouri

Project: 148313

July 18, 2014

Prepared for:

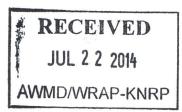
Mile Rail, LLC 281 Woodcreek Court Commerce, MI. 48390

Prepared by:



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July 21, 2014

Mr. Bruce Morrison
Environmental Engineer
Air and Waste Management Division
U.S Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

JUL 2 2 2014

AWMD/WRAP-KNRP

Subject: Removal Action Summary Report

Dear Mr. Morrison:

On the behalf of Mile Rail, LLC (Mile Rail), CB&I Environmental and Infrastructure (CB&I) submits two copies of the *Removal Action Summary Report* (RA Report) to the U.S. Environmental Protection Agency (EPA) regarding the former GST Steel facility (Site) located at 8116 Wilson Road, Kansas City, Missouri. The RA Report was prepared to provide a summary of the removal action activities and results of the confirmation samples at the Site. This RA fulfills the requirements of 40 CFR 761.61 for remediating PCB impacted soil to Low Occupancy Levels at the Site and; therefore, Mile Rail requests closure of the former GST Steel facility property.

If you have any questions, please contact me at (913) 317-3591.

Sincerely,

Mark L. Finney, R.G.

Project Manager

cc: Christine Kump-Mitchell, MDNR

Glen Schwartz, Mile Rail, LLC

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1.0 SITE BACKGROUND

1.1 Introduction

On the behalf of Mile Rail, LLC (Mile Rail), CB&I Environmental and Infrastructure (CB&I), formerly Shaw Environmental, is pleased to submit this Removal Action Summary Report (RA Report) to the U. S. Environmental Protection Agency (EPA) which documents work performed by Mile Rail to implement the Remedial Action (RA) at the former GST Steel facility (Site) located at 8116 Wilson Road, Kansas City, Missouri. Fluids containing polychlorinated biphenyl (PCB) were discharged from an unknown number of transformers onto the ground adjacent to the former electrical substation located on the far eastern extent of the Site. Subsequently impacting portions of the concrete pad associated with the substation and the adjacent soil on the north and east sides of the substation.

PCB concentrations were identified in portions of the former substation concrete pad, fill material placed in Excavation 2, and in the soil northeast of the pad. RA activities performed by Mile Rail were completed in accordance with the EPA-approved Removal Action Plan (RAP) and 40 CFR 761.61 and Subpart O. These RA activities were completed on May 21, 2014. This RA Report documents the work performed by Mile Rail.

1.2 Background

Initial RA activities were conducted by Compass Big Blue, LLC (Compass) and documented by West Central Environmental Consultants, Inc. (WCEC). The majority of the known PCB impacted soil were removed from the site and disposed at an approved offsite landfill. Compass discontinued RA activities in November 2012 and filled the initial excavations and a concrete vault with soil from an undetermined location. Leaving PCB impacted soil above 25 parts per million (ppm) onsite east of the former substation pad, extending to the northeast. The initial RA activities were conducted under the "Notification & Certification of Self-Implementing Cleanup and Disposal of PCB Remediation Waste" work plan dated March 31, 2012 to document the proposed polychlorinated biphenyl (PCB) characterization sampling activities.

On November 26, 2012, the Environmental Protection Agency Region 7 (EPA) requested testing of the fill material placed in the previous excavation, testing of the concrete vault located beneath the substation pad, and characterization of the PCBs in the soil to 1 ppm prior to conducting any

further RA activities. The results of this investigation identified PCB concentrations exceeding the limit for Low Occupancy Areas in portions of the concrete pad and in the soil used as fill material in the former excavations. PCB concentrations in the side walls of the vault were below the Low Occupancy Stands and were left in place.

1.3 Site Conditions

The Site is the former GST Steel facility located at 8116 Wilson Road, Kansas City, Missouri. The Site is located in Section 31, Township 50 North, Range 32 West in Jackson County, Missouri. The Site and surrounding properties are zoned commercial/industrial. The Site is located adjacent to the Union Pacific Railroad Company's property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard) in Kansas City, Missouri.

The Site is located in the far eastern portion of the former GST Steel facility on a narrow ridge positioned between two railroad tracks that come together east of the Site forming a Y. The surface topography is relatively flat on top of the ridge and drops off steeply to the north-northeast and south-southeast to the access roads that run parallel to the railroad tracks. The side slopes are heavily vegetated with brush and trees. The area to the west is a relatively flat parcel that is undeveloped and covered with gravel with little to no vegetation. The Site is well drained with no discernable drainage issues. The overall surface drainage is generally to the north and northeast towards the Little Blue River.

Previous investigations indicated that residual PCBs remained in the soil on the northeast portion of the concrete pad extending to the northeast towards the UP property. Soil from an unknown source was placed in the previous excavations by Compass following the RA completed in November 2012. No analytical data was provided to demonstrate the soil was free of PCBs prior to placement in the excavations. Subsequent testing of the soil used for fill material indicated that the soil contained PCBs. In addition, no analytical testing was conducted on the former substation concrete pad and associated vault. Chip samples collected from the concrete pad indicated that portions of the pad were impacted with respect to PCBs that exceed the limit for a Low Occupancy Area, while PCB concentrations in the vault walls were below the limit for a Low Occupancy Area.

1.4 Soil Characterization

On August 20, 2013, continuous soil samples were collected from 14 locations in an effort to delineate the horizontal and vertical extent of the remaining PCBs in the soil. Continuous soil samples were collected at each sample location using a direct push (GeoprobeTM) rig to advance a 4-foot macro sampler with a disposable PVC liner to the target depth. A new PVC line was

used at each sample interval. Upon retrieval, the sampler was opened, visually inspected for content, and measured for sample recovery. A discrete soil sample was collected a from the designated sample interval and submitted to a certified laboratory for PCB analysis using EPA Method 8082. Soil sample depths were referenced from the top of the former concrete pad.

All sample activities were conducted in accordance with Section 2.0 of the Work Plan (Shaw, 2013). The limits of PCBs in the soil were defined to 1 mg/kg on the Mile Rail property. PCBs concentrations in the soil exceeding the Low Occupancy Limit extend to the north property line and may extend off site to the northeast onto the adjacent property owned by the Union Pacific Railroad Company. PCBs in the soil on Mile Rail property were detected in a narrow band from CS-101S (230 mg/kg) located in Excavation 4 extending to the northeast to CS-307 (740 mg/kg). The detection at CS-101S was located at approximately 6.6 feet below the pad reference elevation and trended downward as it migrated to the northeast to 14 to 16 feet below the pad at CS-102E (580 mg/kg), and to 16 to 22 feet below the top of the pad near the north property line at CS-307 (740 mg/kg). The analytical testing results are summarized in **Table 1** and illustrated in **Figure 1**.

2.0 REMOVAL ACTION OBJECTIVES

RA activities were completed on May 21, 2014 in accordance with the EPA-approved RAD. This RA Report documents the work performed by Mile Rail at the former GST Steel Facility.

The contaminant of concern (COC) was PCB presumably resulting from the discharge of transformer fluids at the former substation by copper thieves. Portions of the substation's concrete slab and the adjacent soil were impacted as a result of this activity. PCB was identified in the soil primarily on the east side and to a lesser extent on the north side of the concrete pad extending to the northeast toward the railroad tracks.

The objective of the RA was to remove all PCB impacted material above the Low Occupancy Standard and dispose of the material in the appropriate waste management unit. The following tasks were performed to meet the objective:

- Removed all PCB impacted concrete associated with the identified concrete pad and vault. Dispose of the demolition waste concrete to the appropriate waste management unit based on available analytical data.
- Excavated all PCB impacted fill material within the limits of the former excavations. Dispose of the excavated material to the appropriate waste management unit based on available analytical data.
- Excavated all PCB impacted soil on Mile Rail property above the Low Occupancy Standard and dispose of the excavate soil to the appropriate waste management unit based on available analytical data.
- Collected confirmation samples of the native soil following excavation activities to confirm all impacted soil above the Low Occupancy Standard has been removed.
- All required concrete, soil, and fill material samples were submitted to an EPA certified laboratory for PCBs analysis.
- Prepare a brief report to summarize the RA activities. The report will include the cumulative analytical data, summary of RA construction activities, copies of the waste manifests, and photographic log of activities.

2.1 Target Cleanup Goals

The impacted soil identified on site during the characterization phase will be remediated to Low Occupancy Standards. Concrete and fill/soils with confirmed concentrations greater than 25 mg/Kg of PCBs were excavated and disposed offsite at the permitted land disposal facilities. Materials classified as non-hazardous with supporting analytical data were disposed offsite as special waste at a permitted facility. Materials classified as hazardous waste or PCB concentrations greater than the local disposal facility's permit limit were disposed offsite at a permitted TSCA waste management facility.

3.0 REMOVAL ACTION

3.1 Removal Action Construction

The RA activities performed by Mile Rail as set forth in the approved RAD included the excavation, transportation, and final disposal of PCB impacted materials from the Site depicted in **Figure 2**. PCB impacted soil identified during the site investigation was excavated and disposed at the respective landfill permitted to receive special waste or TSCA waste. Confirmation sampling was conducted within the limits of the excavation to confirm that PCBs concentrations were below the levels for Low Occupancy Standards. The limit of the excavation is illustrated in **Figures 3** and **4**. Photographic documentation of the RA construction activities are provided in **Appendix A**.

Confirmation samples were collected from the exposed excavation side walls and bottom following the excavation of the impacted soil to confirm residual PCBs concentrations. The fill was compacted in lifts and graded to promote drainage to the northeast, east, and southeast.

The RA provides protection of human health and the environment through the removal of impacted soil. PCB concentrations in the soils left on site were below the levels for Low Occupancy Standards. All disturbed areas including the location of the former pad and vault, were covered with soil fill material.

2.1.1 Best Management Practices

Best Management Practices were not required during the RA construction activities. The Site is located on a narrow ridge located between the junction of two railroad tracks. Previous RA work conducted by others resulted in the formation of a relatively shallow pit which contained all direct precipitation from leaving the area of disturbance. The location of the work area on the ridge limited the runoff of surface water from areas outside of the area of disturbance. No measureable precipitation occurred during periods of construction; therefore, no surface water management activities were required.

3.1.2 Site Preparation

Minimal site preparation was required for the RA construction activities. Minimal vegetation was cleared along the south and east portions of the pad to provide access for equipment. Minor

grading occurred along the south extent of the former pad to provide a path for hauling soil from the excavation to haul trucks. No free liquids were observed in the prior excavation during the RA construction activities as observed in Photographs provided in **Appendix A**.

Vegetation and construction debris generated during the RA site preparation was transported and disposed at the Johnson County Landfill located in Shawnee, Kansas. Manifests for the disposal of the construction debris and soil were provided to the Engineer on a daily basis.

3.1.3 Excavation

All investigation and remedial activities were conducted under the EPA approved Work Plan and "Removal Action Plan" (RAP) dated July 2013. Per the client's requests, characterization and removal action activities were conducted in conjunction with an attempt to expedite the schedule. The results of the concrete pad and fill material sampling are summarized in the RAP and illustrated on **Figure 1**. A summary of the concrete pad and fill removal, vault sampling, and characterization sampling activities are provided below.

Soil with PCB concentrations less than 25 mg/kg were left on site. Impacted soil with PCB concentrations exceeding 25 mg/kg on Mile Rail property were excavated and disposed at an EPA approved landfill as outlined in Section 4.1.5 of the RAP (Shaw, 2013c). Non-hazardous soil with PCB concentrations greater than 25 mg/kg but less than 50 mg/kg was disposed at the Johnson County Landfill. Soils classified as hazardous, PCB concentrations greater than 50 mg/kg, were disposed as TSCA waste at the Heritage Environmental Services, LLC facility located in Roachdale, Indiana. Confirmation samples were collected on the sidewalls and floor of the excavation to confirm all impacted soil above 25 mg/kg of PCBs had been removed.

3.1.3.1 Concrete Pad and Fill Material Disposal

A RA was conducted from July 31, 2013 through August 1, 2013 to remove portions of the identified PCB containing waste from the site agreed on by the EPA and Mile Rail. This included the former substation concrete pad, the majority of the soil located within the confines of the vault, and fill material previously placed in the excavations by others. Waste containing PCB concentrations below 50 mg/kg were disposed at the Johnson County Landfill. Materials containing PCB at or greater than 50 mg/kg were disposed at the Heritage Environmental Services, LLC hazardous waste facility located in Roachdale, Indiana. Below are the actual quantities of materials disposed offsite at the approved land disposal facilities during the RA conducted on July 31 and August 1, 2013:

Heritage (TSCA waste):

End Dump: 21.89 Tons
Roll-off #1: 11.33 Tons
Roll-off #2: 14.01 Tons

Johnson County Landfill – Deffenbaugh (special waste):

6 End dumps:

End Dump: 7.19 Tons
End Dump: 14.47 Tons
End Dump: 25.40 Tons
End Dump: 14.56 Tons
End Dump: 17.61 Tons
End Dump: 13.10 Tons

3.1.3.2 Vault Samples (concrete, sediment, and water)

Samples were collected from the side walls and contents of the vault to determine final disposition of the concrete vault. On August 8, 2013, the remaining sediment and water in the vault were sampled and submitted for PCB analysis using EAP Method 8082. The results of the analytical testing indicated that the sediment in the vault contained 1.3 mg/kg of PCB and the water contained 37.2 ug/L of PCBs. On October 1, 2013, attempts were made to remove the water from the vault to collect chip samples of the opposing side walls and floor of the vault. Ten, 55-gallon drums of water were pumped from the vault in an attempt to dewater the vault. The water level maintained approximately 8 to 10 inches deep through this process, preventing the collection of the chip sample from the vault floor. Chip samples were collected from the opposing north and south side walls from a level with observed staining. PCB concentrations in the sediment and chip samples were below the Low Occupancy Standard of 25 mg/kg. The results of the analytical testing are summarized in **Table 1**.

3.1.3.3 Impacted Soil Disposal

The final phase of the RA was conducted on April 16, 2014, May 7, 2014, and May 20, 2014 to remove the identified impacted soil with PCB concentration exceeding 25 ppm. This included the area on Mile Rail property identified during the site investigation conducted on August 20, 2013. All excavated soil was assumed to be comingled with soil containing PCB at or greater than 50 mg/kg and; therefore, were disposed at the Heritage Environmental Services, LLC

hazardous waste facility located in Roachdale, Indiana. Below are the actual quantities of materials disposed offsite at the approved land disposal facilities during the RA conducted on April and May 2014:

Heritage (TSCA waste):

- End Dump (April 16, 2014): 26.99 Tons
- End Dump (May 7, 2014): 22.94 Tons
- End Dump (May 20, 2014): 17.07 Tons

A total of 206.56 tons of impacted concrete, fill material, and soil were excavated from the Site and disposed at the Johnson County and Heritage Landfills. Photographs documenting the excavation activities are provided in **Appendix A**.

The demolition of the top of the vault and concrete pad was accomplished using a Volvo BL60B backhoe equipped with a hydraulic ram. Impacted soil was excavated during the initial phase using a CAT mini excavator. The final excavation of impacted soil was conducted using CAT 320 excavator for additional reach requirements.

Waste manifest disposal tickets were provided to each driver onsite at the time they were loaded. A signed copy of the special waste manifest disposal ticket and associated landfill weight ticket were returned to the CB&I representative. A summary of the weight tickets are provided in **Appendix C**.

3.1.4 Confirmation Sampling

Confirmation samples were collected from the exposed side walls and bottom of the excavation to confirm PCB concentrations were below the Low Occupancy Standards. A total of 8 record samples and one duplicate sample were collected following the initial excavation conducted on April 16, 2014. Four additional confirmation samples were collected from the areas where PCB concentrations exceeded the Low Occupancy Standards and required additional excavation. On May 20, 2014 these areas were over excavated to remove the impacted soil and confirmation samples collected to confirm the results. Duplicate samples were collected on a 10:1 basis for quality control purposes. Documentation of the sampling activities was recorded in a field logbook. The eight locations were located within the limits of the excavation as illustrated in **Figures 3** and **4**.

Soil samples were submitted to a certified laboratory for analyses. All samples were submitted for an expedited turnaround time (48 hour). Samples collected during the RA activities were analyzed for PCBs using EPA Method 8082.

No measureable precipitation occurred during the RA construction activities and no water was observed in the open excavation; therefore, no surface water samples were collected.

In the initial excavation, PCB concentrations exceed the Low Occupancy Standards on 25 mg/kg in four of the eight samples collected. These include the samples SIDE2 (130 mg/kg), SIDE3 (290 mg/kg), SIDE5 (29 mg/kg), and BOTTOM1 (410 mg/kg). These areas were over excavated on May 20, 2014 to remove the remaining impacted soil. PCB concentrations in the confirmation samples collected from the areas of over excavation were below the Low Occupancy Standards on 25 mg/kg in all three of the samples collected (PCB <0.017 to 0.024 mg/kg). The north extent of the excavation terminated at the property line. Mile Rail was unable to acquire the necessary right of entry agreement from the property owner to extend the excavation beyond that point; therefore, no additional confirmation samples were collected at sample location SIDE 3. The results of the confirmation sampling are summarized in **Table 2** and illustrated in **Figures 3** and **4**. Laboratory reports are provided in **Appendix B**.

3.1.5 Site Restoration

The excavation was backfilled with clean soil from an off-site borrow source once all impacted materials had been removed and confirmed by analytical data. Approximately 144 cy of soil were transported to the Site to fill in the area of excavation. On April 10, 2014, a confirmation sample collected at the borrow source to confirm the soil was free of PCBs. No PCBs were detected in the soil sample. Analytical results are provided in **Appendix B**.

Plastic sheet was placed on the north extent of the excavation at the property line where residual PCB contamination remained. Soil was initially dumped on the west extent of the work area and distributed in place using a CAT 320 excavator to restore the site to near original grade. The soil was placed in 6-inch lifts and compacted in place using the excavation bucked and tracks to minimize potential future settling. The soil fill was graded to match the existing grade on the west extent of the Site and sloped to the north, east, and south to match the adjacent respective grades and promote drainage. Grading activities are documented in photographs provided in **Appendix A**.

3.1.6 Groundwater Sampling

On May 21, 2014, groundwater samples were collected from two locations to evaluate the potential impact to the underlying aquifer. Sample GW-1 was located on the southwest extent of the excavation and Sample GW-2 was located on the northeast extent of the excavation adjacent to the UP property. The two discrete groundwater samples were collected by advancing a SP15 groundwater sampler to the target depth using a Geoprobe™ rig. The first probe was advanced to a total depth of 28 feet bgs at location GW-1. Insufficient water was encountered to obtain the required sample volume; therefore, a temporary piezometer was installed in the probe hole. No measureable quantities of water were observed in the temporary piezometer set at 28 feet bgs. Temporary piezometers were then set at GW-1 and GW-2 to a total depth of 30 feet bgs. A sufficient quantity of water was available at this depth to collect the required sample volume at both locations. Groundwater and sediment were purged from the piezometer to provide a representative sample prior to sample collection. Filtered and non-filter groundwater samples were collected at each location and submitted to a certified laboratory for analyses. All samples were submitted for a standard 14 day turnaround time. Groundwater samples collected during the RA activities were analyzed for PCBs using EPA Method 8082. PCB concentrations in the groundwater samples collected at GW-1 and GW-2 were below the analytical detection limit of 0.5 ug/L. The results of the groundwater sampling are summarized in **Table 2** and illustrated in Figures 4.

3.1.7 Off-Site Access

Soil samples collected along the north property line indicated that PCBs have migrated onto the adjacent property owned by the Union Pacific Rail Road Company (UP). The UP was notified that PCBs have migrated onto their property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard), in Kansas City, Missouri. The UP subsequently issued Folder No.2842-48 for the Right-of-Entry application.

The Work Plan Addendum dated November 6, 2013 was prepared and approved by the EPA on November 11, 2013 to characterize the northern extent of the PCB plume on UP property. The investigation included extending the 1.5 m grid to the northeast and collecting soil samples along the grid and bracketing the interval of identified PCB contamination at the adjacent sample locations. Groundwater samples were to be collected from selected locations based on the results of the soil investigation to determine possible impact to the aquifer.

On December 2, 2013, an Environmental Right-of-Entry agreement application was submitted to the UP to conduct the investigation. UP approved the application and submitted a revised Right-

of-Entry Agreement to Mile Rail on December 20, 2013. On January 17, 2014, UP requested a copy of Mile Rails certificate of insurance (COI) to process the Environmental Right-of-Entry agreement. A COI is required from the licensee of the agreement to conduct work on the UP property. Mile Rail allowed the insurance for the Site to lapse following the sale of the property and prior to knowledge of the off-site migration of PCB. Mile Rail subsequently tasked an insurance broker to obtain the require insurance. Procurement of the required insurance proved challenging since Mile Rail no longer owned the property. On March 27, 2014, Mile Rail, after exhausting all perceivable options to obtain the required insurance, discontinued their effort to pursue the Right-of-Entry Agreement and resumed efforts towards the onsite RA. A copy of the UP Right-of-Entry Agreement is provided in **Appendix D**.

3.2 Schedule

Due to physical limitation accessing the vault and impacted soil, the RA activities were staged pending characterization of the material to determine handling process and disposition. This included characterization and demolition of the vaults top, characterization and disposal of the vault contents, and management of the fill material and excavation of the underlying impacted soil. These activities were initiated in March 2013 and completed in May 2014.

A schedule of the site characterization and RAD/RA activities is provided below.

| Collected Chip Samples from Vault Top | March 13, 2013 |
|--|-------------------|
| Collected Additional Chip Samples from Vault Top | April 3, 2013 |
| Collected Fill Material Samples | May 21, 2013 |
| Collected Discrete Fill Material Samples at Excavation 2 | June 18, 2013 |
| Removed Top of Vault/ Excavated Fill Material July 3 | 30-August 1, 2013 |
| Characterized Extent of PCBs in Soil | August 20, 2013 |
| Removed Contents and Collected Chip Samples from Inside of Vault | October 1, 2013 |
| Submitted application for Right of Entry agreement | December 2, 2013 |
| Submitted signed Right of Entry agreement | December 20, 2013 |
| Rescinded Right of Entry agreement | March 27, 2014 |
| Collected Borrow Source Confirmation Sample | April 10, 2014 |
| Completed RA Construction Activities (Initial) | April 16, 2014 |
| Completed RA Construction Activities (Second) | May 7, 2014 |

| Backfilled Excavation with Soil | May 20, 2014 |
|---------------------------------|--------------|
| Collected Groundwater Samples | May 21, 2014 |
| Submitted RA Summary Report | June, 2014 |

4.0 REFERENCES

- Shaw Environmental, Inc (Shaw), 2013a, PCB Characterization Work Plan, Former GST Steel Facility Site, Kansas City, Missouri, February 12, 2013.
- Shaw Environmental, Inc (Shaw), 2013b, Site Specific Health and Safety Plan, Former GST Steel Facility Site, Kansas City, Missouri, March, 2013.
- Shaw Environmental, Inc (Shaw), 2013c, Removal Action Plan, Former GST Steel Facility Site, Kansas City, Missouri, July 18, 2013.
- Shaw Environmental, Inc (Shaw), 2013d, PCB Characterization Work Plan Addendum, Former GST Steel Facility Site, Kansas City, Missouri, November 6, 2013.

Tables

Table 1 Sample Analytical Summary Former GST Steel Facility Kansas City, Missouri

| Sample ID | Date Sampled | Excavation Exc | avation Depth (ft) | Ground Surface (ft) | Sample Interval (ft) | PCB (mg/kg |
|----------------------|--------------|--|--------------------|---------------------|----------------------|------------|
| /ault Samples | 00/04/42 | Vault | NA | NA | 0-1 | 1.3 |
| /ault Fill | 08/01/13 | | | | | 0.0372 |
| /ault Water | 08/01/13 | Vault | NA | NA | 0-1 | |
| ault Chip North | 10/01/13 | Vault | NA | NA | Surface | 2.1 |
| ault Chip South | 10/01/13 | Vault | NA | NA | Surface | 2 |
| Chip 1 | 03/13/13 | Vault Top | NA | NA | Surface | 7.4 |
| Chip 2 | 03/13/13 | Vault Top | NA | NA | Surface | 2.1 |
| Chip 3 | 04/03/13 | Concrete Pad | NA | NA | Surface | 1,100 |
| Chip 4 | 04/03/13 | Concrete Pad | NA | NA | Surface | 99 |
| Chip 5 | 04/03/13 | Concrete Pad | NA | NA | Surface | 10 |
| Chip 6 | 04/03/13 | Concrete Pad | NA | NA | Surface | 42 |
| Confirmation Sampl | es | | | 1, 12 | | |
| CS-113W | 08/01/13 | Exacavation 1 | 5.5 | ND | 0-1 | <0.025 |
| CS-112W | 08/01/13 | Exacavation 1 | 5.5 | ND | 0-1 | 1.2 |
| CS-108 | 08/01/13 | Exacavation 1 | 5.5 | ND | 0-1 | 3.6 |
| CS-117 | 08/01/13 | Exacavation 1 | 5.5 | ND | 0-1 | 0.44 |
| CS-101S | 08/01/13 | Exacavation 4 | 4 | 6.6 | 0-1 | 230 |
| CS-102 | 08/01/13 | Exacavation 2 | 10 | 6.93 | 0-1 | 22 |
| CS-102E | 08/01/13 | Exacavation 2 | 10 | 7.07 | 0-1 | 0.25 |
| | 08/01/13 | Exacavation 3 | 3.5 | ND | 0-1 | 0.53 |
| CS-110N | | | 3.5 | ND | 0-1 | 0.3 |
| CS-105N | 08/01/13 | Exacavation 3 | 3.5 | NU | 0-1 | 0.3 |
| Characterization San | | Couthoost | 4 | 4.51 | 6-8 | 0.11 |
| CS-301 | 08/20/13 | Southeast | * | 4.31 | 8-10 | 0.11 |
| | | | | | | |
| | | | | | 10-12 | NT |
| | | | | | 14-16 | NT O.46 |
| CS-302 | 08/20/13 | Exacavation 4 | 4 | 4.7 | 6-8 | 0.16 |
| | | | | | 8-10 | 0.4 |
| | _ | | _ | - | 10-12 | NT |
| | | 3 7 | | | 14-16 | 0.15 |
| CS-303 | 08/20/13 | Southeast | 10 | 5.07 | 12-14 | NT |
| | | | | | 14-16 | 0.99 |
| | | | | | 16-18 | NT |
| | | | | | 18-20 | NT |
| CS-304 | 08/20/13 | Exacavation 2 | 10 | 6.75 | 12-14 | 0.17 |
| 23 304 | 00/20/13 | Exacavacion E | | | 16-18 | 0.65 |
| | | | | | 20-22 | 0.25 |
| | | - | | | 24-26 | NT |
| | | | | | | NT |
| | 20/20/40 | F 2 | 40 | 6.07 | 28-30 | |
| CS-305 | 08/20/13 | Exacavation 2 | 10 | 6.87 | 12-14 | 50 |
| | | | | | 16-18 | 3.6 |
| | | | | | 20-22 | 0.014 |
| | | | | | 24-26 | NT |
| | | | | | 28-30 | NT |
| CS-306 | 08/20/13 | Northeast | 10 | 4.19 | 12-14 | NT |
| | _ | | | | 16-18 | 0.056 |
| | | - | | | 20-22 | NT |
| | | | | | 24-26 | NT |
| | | | | | 28-30 | NT |
| CS-307 | 08/20/13 | Northeast | 10 | 4.39 | 12-14 | 0.18 |
| | -,, | | | | 16-18 | 260 |
| | | | | | 20-22 | 740 |
| | | | | | 24-26 | 0.04 |
| | | | | | 28-30 | 15 |
| C 200 | 08/20/12 | Northeast | 10 | 3.49 | 12-14 | NT |
| CS-308 | 08/20/13 | Northeast | 10 | 3.73 | | 0.057 |
| | | - | | | 16-18 20-22 | 0.037 |
| | | | | | | |
| | | | | | 24-26 | NT |
| | | · · · · · · · · · · · · · · · · · · · | | | 28-30 | NT |
| CS-309 | 08/20/13 | Northeast | 10 | | 12-14 | NT |
| | | | | | 16-18 | NT |
| | | | | | 20-22 | NT |
| | | | | | 24-26 | NT |
| | | | | | 28-30 | NT |
| CS-102 | 08/20/13 | Exacavation 2 | 10 | 6.93 | 10-12 | 2.4 |
| | | | | | 14-16 | 0.29 |
| | | | | | 17-19 | NT |
| CS-102E (202) | 08/20/13 | Exacavation 2 | 10 | 7.07 | 10-12 | 0.15 |
| | -0,20,10 | | | | 14-16 | 580 |
| | | | | | 17-19 | 0.013 |
| CS-101S | 08/20/13 | Exacavation 4 | 4 | 6.6 | 4-6 | 8.4 |
| C 1013 | 00/20/13 | LAGGGVGHOH | 7 | 0.0 | 6-8 | NT |
| | | + | | | 10-12 | 0.55 |
| 00.449 | 20/22/22 | | | C 24 | | |
| CS-117 | 08/20/13 | Southeast | 5.5 | 6.21 | 6-8 | NT |
| | - | | | | 8-10 | 0.032 |
| | | | | | 10-12 | NT |
| CS-121 | 08/20/13 | Southeast | 3.64 | 3.64 | 4-6 | 0.54 |
| | | | | | 6-8 | NT |
| | | | | | | 1 100 |
| | | | | | 8-10 | NT NT |

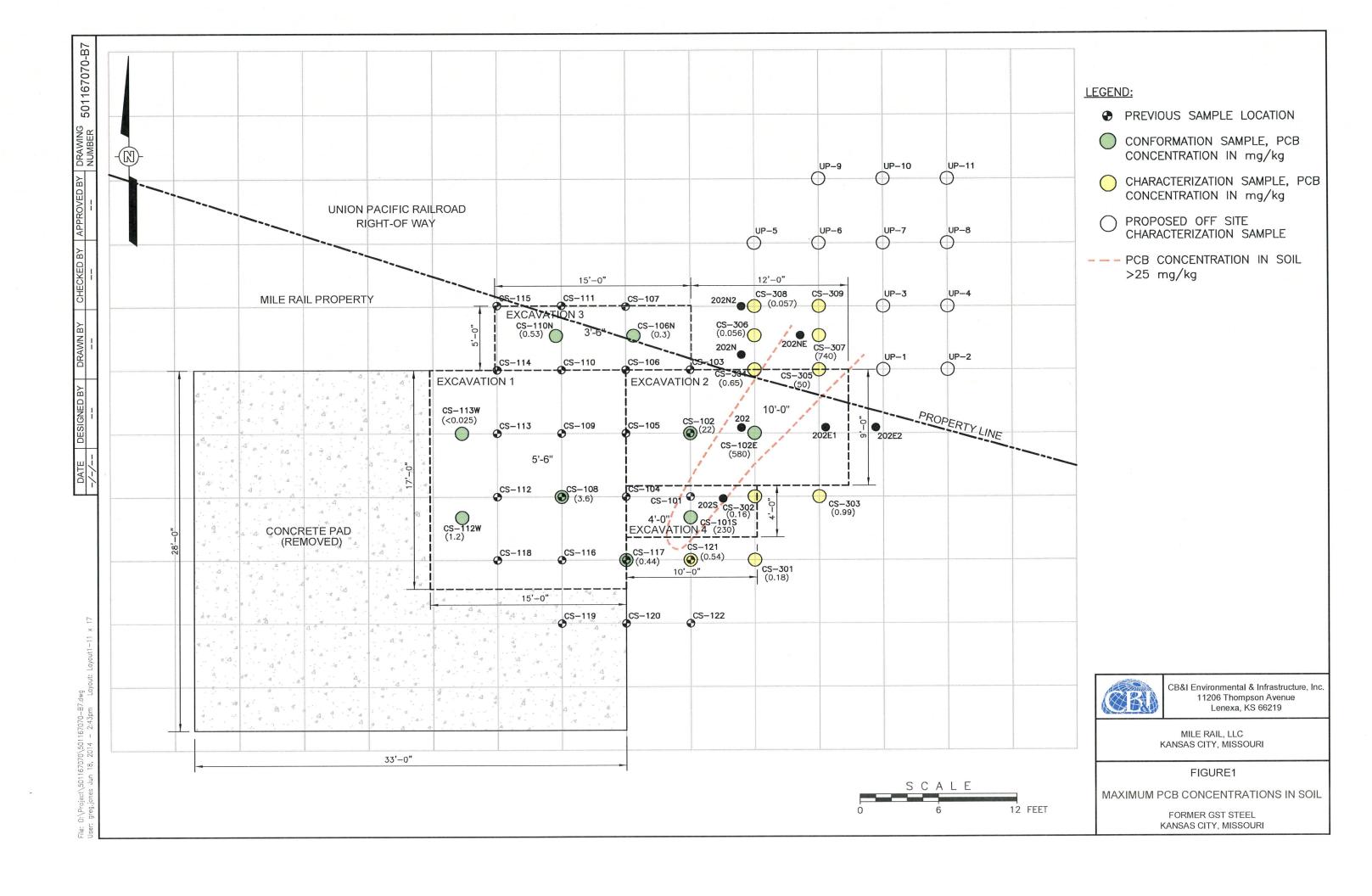
Note:
NT - Not Tested
ND - Not Determined
Sample depths referenced from top of pad in feet.
Exceeded 25 mg/kg of PCBs

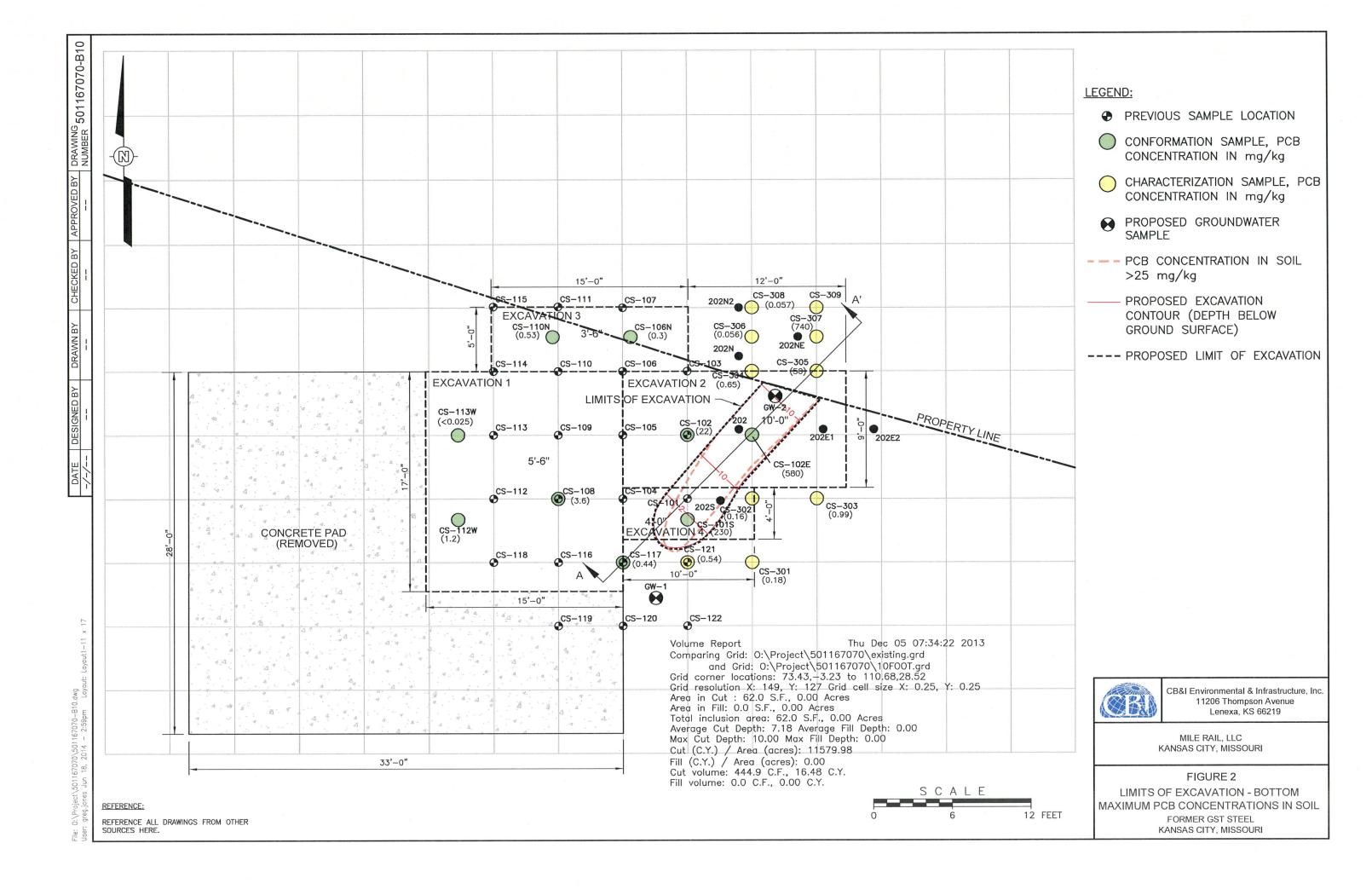
Table 2
Confirmation Sample Summary
Former GST Steel Facility
Kansas City, Missouri

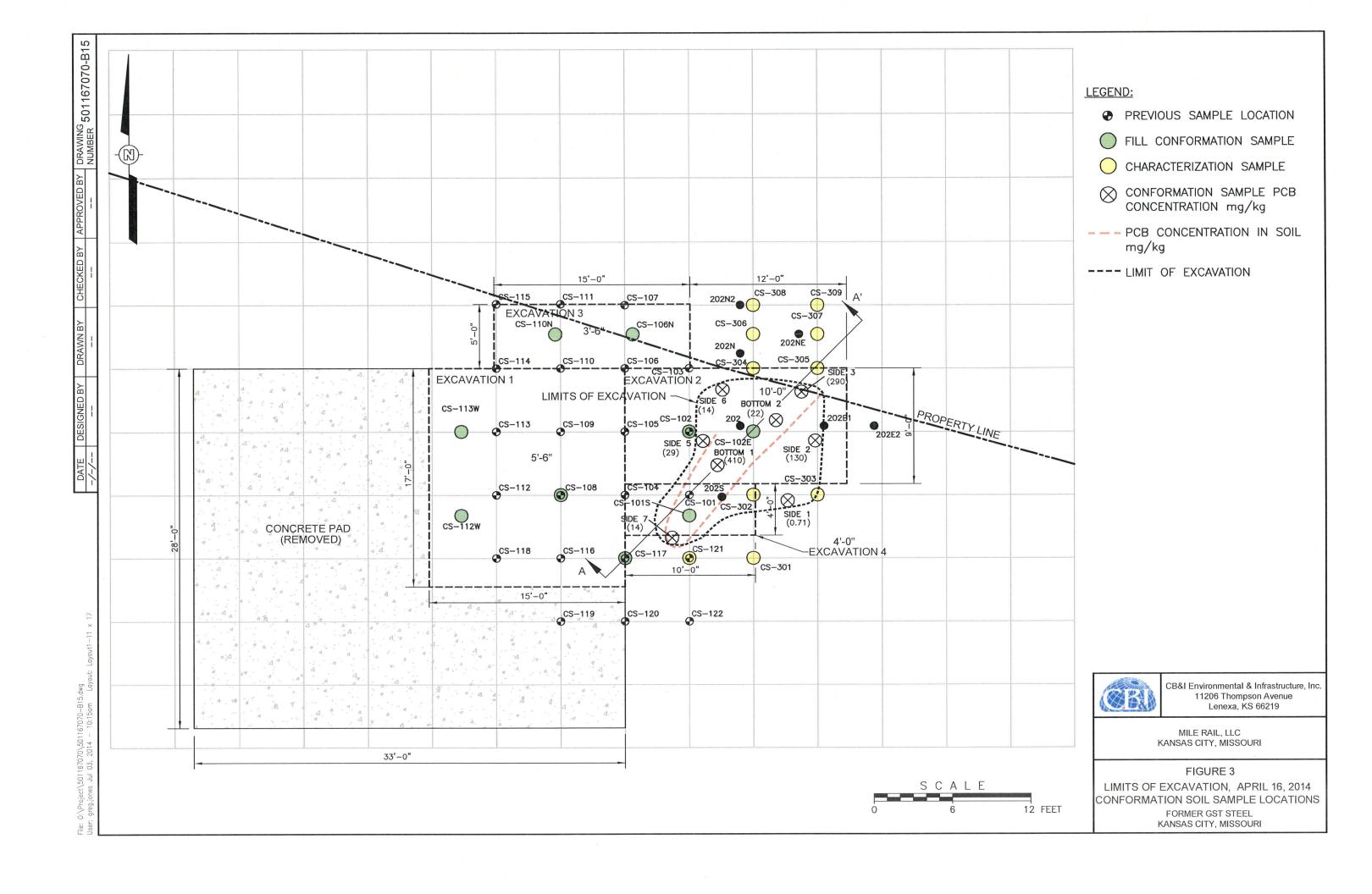
| Sample ID | Sample Date | Ground Surface (ft) | Media | PCB - Aroclor 1260 | Unit |
|---------------|----------------------|---------------------|-------------|--------------------|-------|
| Soil Confirma | tion Samples | | | | |
| SIDE1 | 4/16/2014 | 8-9' | Soil | 0.71 | mg/kg |
| SIDE2 | 4/16/2014 | 8-9' | Soil | 130 | mg/kg |
| SIDE3 | 4/16/2014 | 8-9' | Soil | 290 | mg/kg |
| SIDE4 | 4/16/2014 | 8-9' | Soil | NS | mg/kg |
| SIDE5 | 4/16/2014 | 8-9' | Soil | 29 | mg/kg |
| SIDE6 | 4/16/2014 | 8-9' | Soil | 14 | mg/kg |
| SIDE7 | 4/16/2014 | 8-9' | Soil | 14 | mg/kg |
| BOTTOM1 | 4/16/2014 | 10.5-11' | Soil | 410 | mg/kg |
| воттом2 | 4/16/2014 | 10.5-11' | Soil | 22 | mg/kg |
| SIDE8 | 5/7/2014 | 8-9' | Soil | <0.017 | mg/kg |
| SIDE9 | 5/7/2014 | 2-2.5' | Soil | <0.017 | mg/kg |
| воттомз | 5/7/2014 | 11.5-12' | Soil | 0.024 | mg/kg |
| Groundwater | · Confirmation Sampl | es | | | |
| GW-1 | 5/21/2014 | 26-30' | Groundwater | <0.5 | ug/L |
| GW-2 | 5/21/2014 | 26-30' | Groundwater | <0.5 | ug/L |

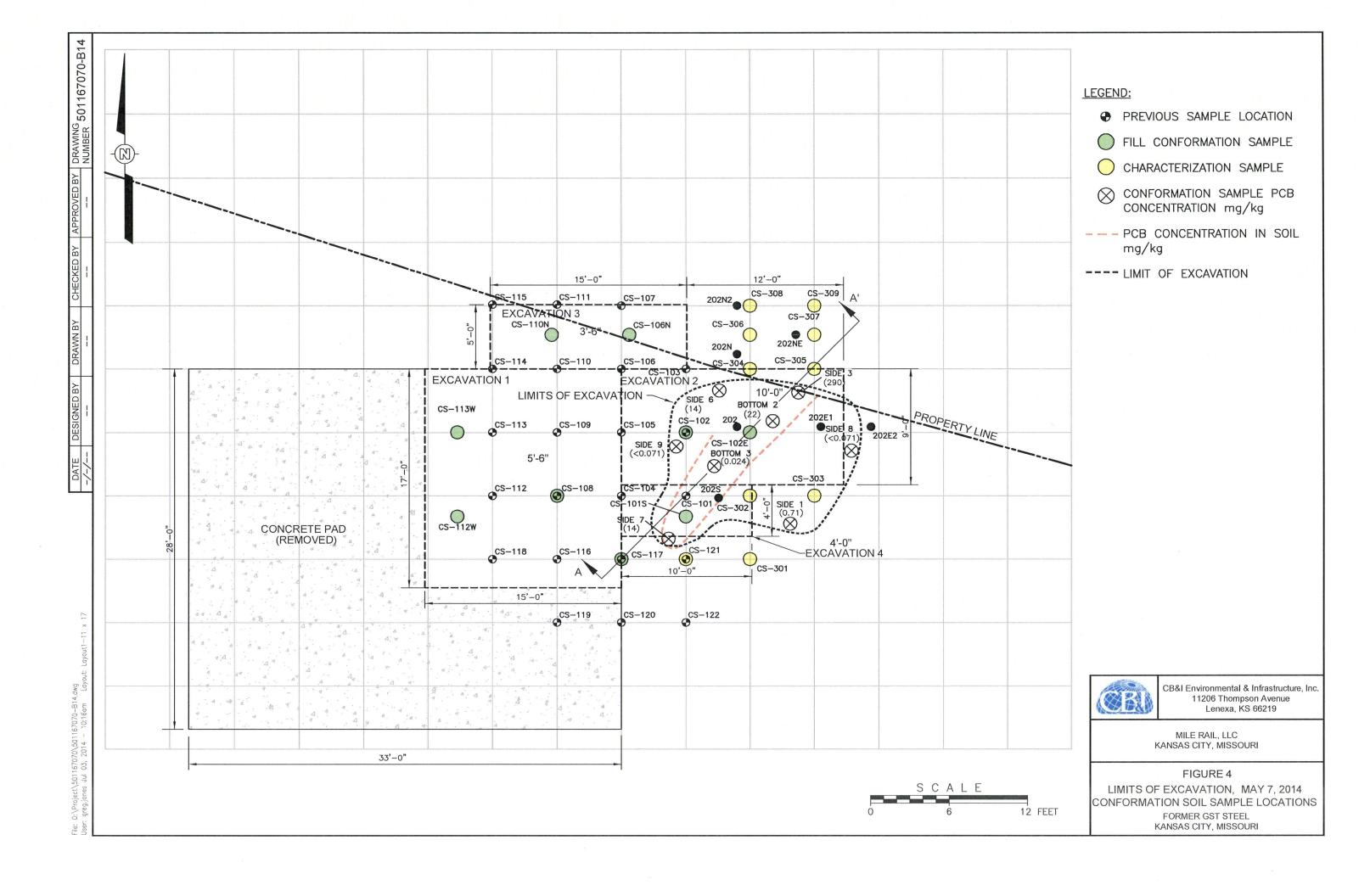
Exceeded Low Occpancy Limit of 25 mg/Kg. Required over excavation. Exceeded Low Occpancy Limit of 25 mg/Kg at property line.

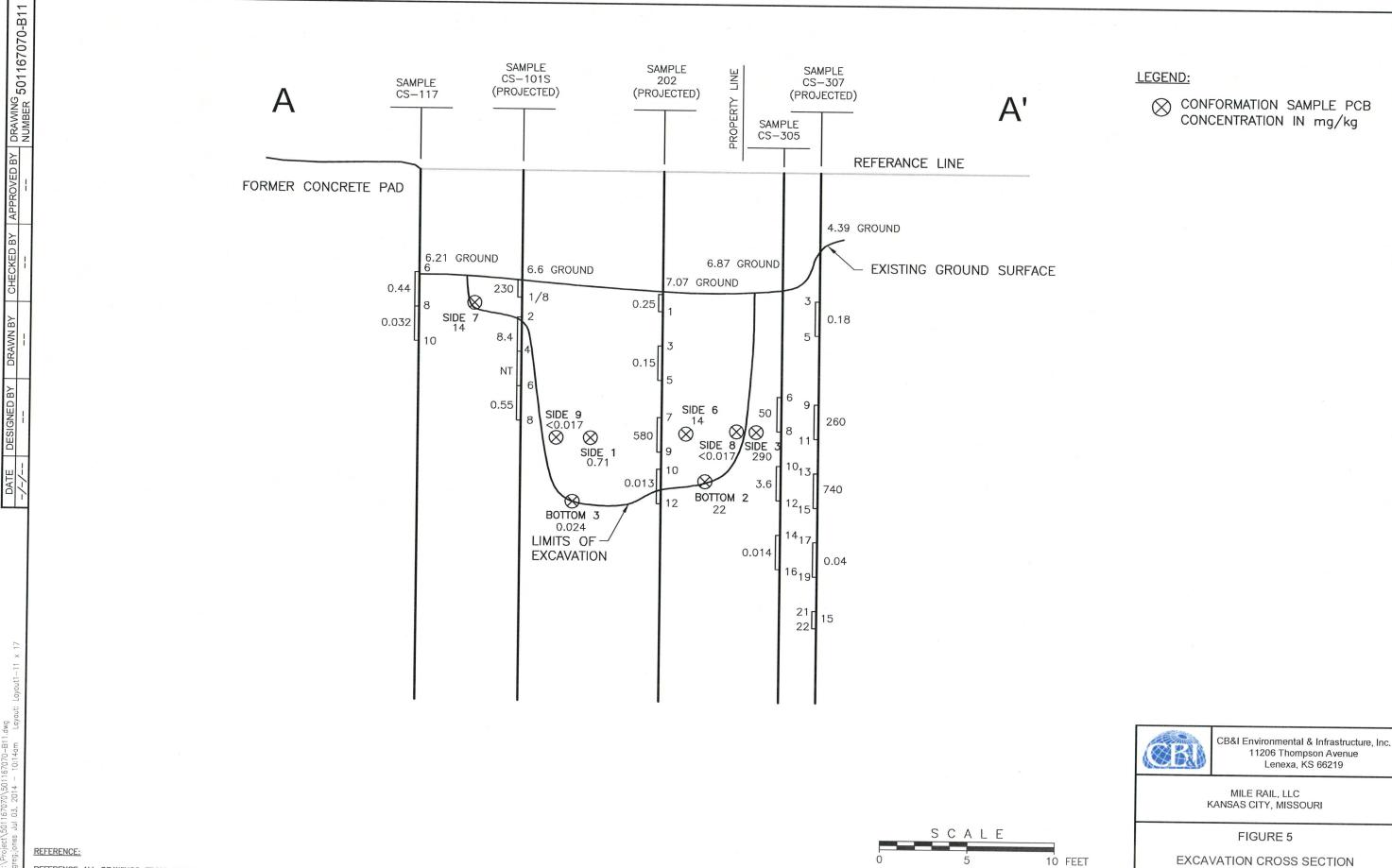
Figures











REFERENCE ALL DRAWINGS FROM OTHER SOURCES HERE.

FORMER GST STEEL KANSAS CITY, MISSOURI



Appendix A

Photographic Log

Photographic Documentation



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client:

Mile Rail, LLC

Date: 3/21/2013



Description: Photo 1 Concrete Pad **Direction**: East



Description: Photo 2 Sample Area



Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313

Photographer: Mark Finney

Client:

Mile Rail, LLC

Date: 3/21/2013



Description: Photo 3 Chip Sample 1

Direction: North



Description: Photo 4 Chip Sample 2



Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC 4/03/2013



Description: Photo 5 Top of Vault **Direction**: East



Description: Photo 6 Chip Samples 3, 4, & 5



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Mile Rail, LLC 4/03/2013

Date: 4/03/2013

Client:



Description: Photo 7 Chip Sample 6 **Direction**: East



Description: Photo 8 Chip Samples 4-6 **Direction:** West



Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC 5/21/2013



Description: Photo 9 Fill Material Samples

Direction: East



Description: Photo 10 Fill Material Samples



Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

8/02/2013



Description: Photo 11 Concrete Pad

Direction: East



Description: Photo 12 Concrete Breaker **Direction:** Southeast

Photographic Documentation



Shaw Project Number: 148313

Location: Former GST Steel Site

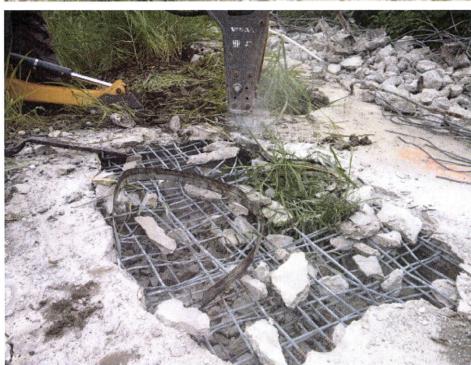
Kansas City, MO

Client: Date: Mile Rail, LLC 8/02/2013



Description: Photo 13 Cutting Rebar

Direction: East



Description: Photo 14 Top of Vault

Direction: East



Location: Former GST Steel Site

Kansas City, MO

Client: Mile Rail, LLC Date: 8/02/2013



Description: Photo 15

Broken Pad

Direction: East



Description: Photo 16 Truck Loading Area **Direction**: East

Photographic Documentation



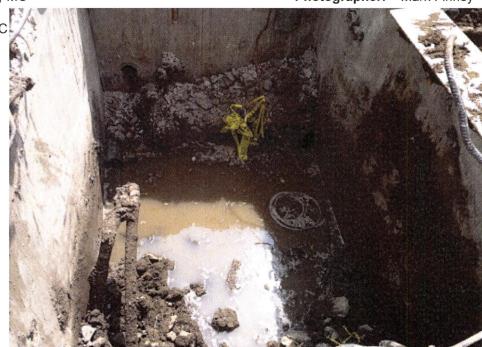
Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313

Photographer: Mark Finney

Client: Date: Mile Rail, LLC 8/02/2013



Description: Photo 17 Vault Contents

Direction: Down/East



Description: Photo 18 Concrete Vault

Direction: South



Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313

Photographer: Mark Finney

Client:

Mile Rail, LLC 8/02/2013

Date: 8/02/2013



Description: Photo 19

Excavation

Direction: West



Description: Photo 20

Excavation

Direction: West

Photographic Documentation



Shaw Project Number: 148313

Photographer: Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

4/16/2014



Description: Photo 21 Soil Excavation **Direction**: East



Description: Photo 22 Loading Trucks Direction: West



Location: Former GST Steel Site

Kansas City, MO

Client: Mile Rail, LLC Date: 4/16/2014



Description: Photo 23 Open Excavation **Direction**: South



Description: Photo 24 Security Fence

Direction: East



Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC 5/07/2014



Description: Photo 25 Safety Fence, Previous

Excavation

Direction: East



Description: Photo 26 Safety Fence, Previous Excavation

Direction: East



Location: Former GST Steel Site

Kansas City, MO

Client: Mile Rail, LLC Date: 5/07/2013



Description: Photo 27 Loading Trucks Direction: South



Description: Photo 28 Open Excavation

Direction: West



Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313 Photographer: Mark Finney

Client: Date: Mile Rail, LLC 5/20/2013



Description: Photo 29 Plastic at End of Excavation

Direction: Northeast



Description: Photo 30 Backfill in Vault

Direction: South



Location: Former GST Steel Site

Kansas City, MO

Shaw Project Number: 148313 Photographer: Mark Finney

Client:

Mile Rail, LLC

Date: 5/20/2013



Description: Photo 31 Backfilling Excavation

Direction: East



Description: Photo 32 Excavation backfilled

Direction: East



Shaw Project Number: 148313 **Photographer:** Mark Finney

Location: Former GST Steel Site

Kansas City, MO

Client: Date: Mile Rail, LLC

5/21/2014



Description: Photo 33 Sample GW-2 Location

Direction: Northeast



Description: Photo 34 Sample GW-1 Location

Direction: Northeast

Appendix B

Laboratory Reports



April 22, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Work Order: HS14040610

Laboratory Results for: Former GST Steele PCB - 148313

Dear Mark,

ALS Environmental received 1 sample(s) on Apr 10, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: bethany.McDaniel

Bethany M. Daniel

Bethany McDaniel Project Manager

Client:

Lab Samp ID

CB&I - Lexana

Project: Former GST Steele PCB - 148313

Client Sample ID

Work Order: HS14040610

ner GST Steele PCB - 148313 SAMPLE SUMMARY

TagNo

Collection Date

Date:

Date Received

22-Apr-14

Hold

HS14040610-01 Borrow Soil Soil 10-Apr-2014 09:45 10-Apr-2014 09:25

Matrix

Date:

CASE NARRATIVE

22-Apr-14

Client: Project: CB&I - Lexana

Former GST Steele PCB - 148313

Work Order: HS14040610

Date:

22-Apr-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB - 148313

WorkOrder:HS14040610

Sample ID:

Borrow Soil

Lab ID:HS14040610-01

Collection Date:

10-Apr-2014 09:45

Matrix:Soil

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|--------|--|-----------------|-------|---|-------------------|
| PCBS BY SW8082A | | Method:SW8082 | | | | Analyst: SE |
| Aroclor 1016 | ND | C. F. S. Paris, or A Str. of December of Anthropology (C. F. S. Paris, or A. S | 17 | ug/Kg | 1 mistandinamintunams od usioidasidasi | 18-Apr-2014 15:05 |
| Aroclor 1221 | ND | | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Aroclor 1232 | ND | | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Aroclor 1242 | ND | | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Aroclor 1248 | ND | | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Aroclor 1254 | ND | TO STATE OF THE PROPERTY OF TH | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Aroclor 1260 | ND | | 17 | ug/Kg | 1 | 18-Apr-2014 15:05 |
| Surr: Decachlorobiphenyl | 106 | AV 8.244 V 49-5 - 18-24 V 8-24 V 19-24 | 54-143 | %REC | 1 | 18-Apr-2014 15:05 |
| Surr: Tetrachloro-m-xylene | 76.7 | | 55-137 | %REC | 1 | 18-Apr-2014 15:05 |

Date:

22-Apr-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB - 148313

DATES REPORT

WorkOrder:

HS14040610

Client Samp ID **Analysis Date** Sample ID **Collection Date TCLP Date Prep Date** DF Test Name: PCBS BY SW8082A Matrix: Soil

Batch ID 80803a HS14040610-01

Borrow Soil

10 Apr 2014 09:45

16 Apr 2014 10:10

18 Apr 2014 15:05

1

Date:

22-Apr-14

Client:

CB&I - Lexana

WorkOrder:

HS14040610

QC BATCH REPORT

Project:

Former GST Steele PCB - 148313

| | | | | | | | | | | <u>ARRAGEROROPO</u> | 444 |
|------------------------------------|------------|---------------|---------|---------|------------------|-------|---------------------------------------|------------------|-------------|---|------|
| MBLK | Sample ID: | PBLKS2-140416 | | | Units: | ug/Kg | Ana | lysis Date: | 18-Apr-2014 | 12:19 | |
| Client ID: | | | Run ID: | ECD_7 | _232303 | SeqNo | 2802983 | PrepDate: | 16-Apr-2014 | . DF | :1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | ND | 17 | | | | | | | | |
| Aroclor 1221 | | ND | 17 | | | | | | | | |
| Aroclor 1232 | | ND | 17 | | | | | | | | |
| Aroclor 1242 | | ND | 17 | | | | | | | | |
| Aroclor 1248 | | ND | 17 | | | | | | | | |
| Aroclor 1254 | | ND | 17 | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Aroclor 1260 | | ND | 17 | | | | | | | | |
| Surr: Decachlorobi | phenyl | 6.72 | 1.6 | 6.667 | . 0 | 101 | 54 - 143 | | | | |
| Surr: Tetrachloro-n | n-xylene | 6.115 | 1.6 | 6.667 | 0 | 91.7 | 55 - 137 | | | | |
| LCS | Sample ID: | PLCSS2-140416 | | | Units: | ug/Kg | Ana | lysis Date: | 18-Apr-2014 | 12:34 | |
| Client ID: | • | | Run ID: | ECD_7 | _232303 | SeqNo | : 2802984 | PrepDate: | 16-Apr-2014 | DF | :1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | 167.1 | 17 | 166.7 | 0 | 100 | 53 - 135 | | | | |
| Aroclor 1260 | | 181.3 | 17 | 166.7 | 0 | 109 | 54 - 137 | | | | |
| Surr: Decachlorobi | phenyl | 7.889 | 1.6 | 6.667 | . О | 118 | 54 - 143 | | | | |
| Surr: Tetrachloro-n | n-xylene | 6.907 | 1.6 | 6.667 | 0 | 104 | 55 - 137 | | 4 | | - |
| MS | Sample ID: | HS14040469-01 | ws | | Units: | ug/Kg | Ana | llysis Date: | 18-Apr-2014 | 11:48 | |
| Client ID: | | | Run ID: | ECD_7 | _232303 | SeqNo | : 2802981 | PrepDate: | 16-Apr-2014 | DF | :1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | 169.2 | 17 | 166.5 | 0 | 102 | 53 - 135 | | | | |
| A1 1000 | | 181.9 | 17 | 166.5 | 0 | 109 | 54 - 137 | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Arocior 1260 | | | | | | | | | | | |
| Aroclor 1260 Surr: Decachlorobi | phenyl | 7.465 | 1.6 | 6.658 | . 0 | 112 | 54 - 143 | | | | |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Date:

22-Apr-14

Client:

CB&I - Lexana

WorkOrder:

HS14040610

QC BATCH REPORT

Project:

Former GST Steele PCB - 148313

| Batch ID: 80803a | | | Instrun | nent: | EGD_7 | | Metho | d: SW808 | 2 | | |
|----------------------|------------|---------------|---------|---------|------------------|--------|------------------|------------------|-----------|--------------|------|
| MSD | Sample ID: | HS14040469-01 | MSD | | Units: | ıg/Kg | Ana | lysis Date: | 18-Apr-20 | 14 12:03 | |
| Client ID: | | | Run ID: | ECD_7_2 | 232303 | SeqNo: | 2802982 | PrepDate: | 16-Apr-20 | 14 D | F: 1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | 178.3 | 17 | 166.5 | 0 | 107 | 53 - 135 | 169.2 | 5.21 | 30 | |
| Aroclor 1260 | | 185.4 | 17 | 166.5 | 0 | 111 | 54 - 137 | 181.9 | 1.91 | 30 | |
| Surr: Decachlorobipl | henyl | 7.971 | 1.6 | 6.658 | 0 | 120 | 54 - 143 | 7.465 | 6.56 | 30 | |
| Surr: Tetrachloro-m- | xylene | 7.03 | 1.6 | 6.658 | 0 | 106 | 55 - 137 | 6.569 | 6.78 | 30 | |

The following samples were analyzed in this batch: $\overline{\rm HS14040610\text{-}01}$

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Date:

22-Apr-14

Client:

μg/Kg

CB&I - Lexana

Micrograms per Kilogram

Project:

Former GST Steele PCB - 148313

QUALIFIERS, ACRONYMS, UNITS

WorkOrder: HS14040610

| WorkOrder. | 110 140400 10 |
|---------------|---|
| Qualifier | Description |
| * | Value exceeds Regulatory Limit |
| а | Not accredited |
| В | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| Н | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| М | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| 0 | Sample amount is > 4 times amount spiked |
| Р | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| Acronym | Description |
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |
| Unit Reported | Description |
| | A A1 |

CERTIFICATIONS, ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|-----------------|------------------------|-------------|
| Arkansas | AR - 2014 | 27-Mar-2015 |
| California | 06248CA 2013-2014 | 31-Jul-2014 |
| Dept of Defense | L2231 Rev 3-20-2014 | 22-Dec-2015 |
| Illinois | 003180 | 09-May-2014 |
| Kansas | E-10352 8/15/2013-2014 | 31-Jul-2014 |
| Kentucky | 95 Year- 2013 | 30-Apr-2014 |
| Louisiana | 03087 2013/2014 | 30-Jun-2014 |
| North Carolina | 624 - 2014 | 31-Dec-2014 |
| Oklahoma | 2013-024 | 31-Aug-2014 |
| Texas | T104704231-13-12 | 30-Apr-2014 |

Date:

22-Арг-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB - 148313

SAMPLE TRACKING

Work Order:

HS14040610

Lab Samp ID

Client Sample ID

Action

Date

Person

New Location

HS14040610-01

Borrow Soil

Login

14-Apr-14 03:19

DRC

13D



Cincinnati, OH +1 513 733 5336

Everett, WA +1 425 356 2600

Fort Collins, CO +1 970 490 1511 Holland, MI

+1 616 399 6070

Chain _. Custody Form

Houston, TX +1 281 530 5656

Spring City, PA +1 610 948 4903

South Char. +1 304 356 3168

Middletown, PA +1 717 944 5541 Sait Lake City, UT York, PA +1 717 505 5280 +1 801 266 7700

| Environm | ental | | | ALS Project | Manager: | | | 100 | ALS | Work | Order | #: | 12:34.8 | cellaria. | |
|---|--------------------|-----------------|--|---|--------------|---------|-------------------|------------|--------------|--------------------|------------------------|-------------------|---------|---------------------------------------|-----------------------------|
| Custon | ner Information | | Project In | formation | | | | Parame | | | The second | | , | | |
| Purchase Order | | Project Name | Former | GST Steele | | A | PCB-8 | 3082 | | | | | | | |
| Work Order | | Project Number | 148. | 3/3 | | В | | | | ., | | | | | |
| Company Name C8 | SI - Lexana | Bill To Company | (ig) | overnment Solutions | , Inc | e | | | | | | | | | |
| Send Report To Mai | k Finney | Invoice Attr | i A/P | | | D | - | | ЦC | 3140 | ነፈበ | 21N | | | |
| 112 | 06 Thompson Avenue | | 8116 Wi | ison Road | | E | • | | 110 | | Lexans | | | | <u> </u> |
| Address | | Address | | | | F | - : | | Former | - CB&I -GST Ste | | | 13 | | |
| City/State/Zip Len | exa, KS 66219 | City/State/Zip | Kansas | City, MO 64125 | | G | | | | | | | | | April 100 miles |
| Phone (91) | 3) 317-3591 | Phone | | *************************************** | | H | - | | | | | | | | |
| Fax | | Fax | | | | 1 | · | | | | : | | | | |
| | k.finney@cbi.com | e-Mail Address | ap.invoic | es@CBI.com | | Ü | | | i | | | | | | |
| | ole Description | Date | middle control at a second | Aatrix Pres. | # Boltles | A | В | C D | 8 F 8 | F | G. | H | 器模 | ູປ | Hold |
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| 55. 86 | | | | | | | | | : | | | | | | |
| 7 | | | | | | | | | : | | | | | | |
| 8 | | | | • | | | | | | | | | | | |
| 9 | | | | | | | | | : | | | | | | |
| 10 | | | | | <u> </u> | | | | <u> </u> | | | | | | |
| Sampler(s) Please Print & Si Slicit L. Bru | on Nearth | Shipment Me | ethod Lex | Required Turner | ound Time: (| Check E | Sox) | Other_ | | 74 132 | , P | | Due Da | | |
| Refinquished by | 7-10-14 | Time: 1/00 Rec | seived by: | - | THE PARTY OF | Notes: | Ways: | THE WINDS | y∎uda Xi | · Z4 FIUU | n 2020 3200 | | | (((((((((((((((((((| |
| Relinquished by: | 5ate: 4-11-14 | Time: Reg | peived by (Laborat | lony | | Cool | er ID | Gooler Tem | 897 · | | | | | | Source Property (1976) |
| Logged by (Leporatory): Preservative Key: 1ºHCl | Date: | | scked by (Leborat | ary): | 9-5035 | | | | | Leve | al III Std al IV SW | QC/Rav 846/CLI | v Data | ☐ TRI | RP CheckList RP Level IV |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Page 11 of 12

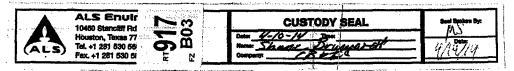
TRX# 8052 9842 3857

FRI - 11 APH 10:00A

NC SGRA

77099 TX-US IAH







21-Apr-2014

Mark Finney CB&I Government Solutions, Inc. 11206 Thompson Ave. Lenexa, KS 66219

Re: Former GST Steele 148313

Work Order: 1404964

Dear Mark,

ALS Environmental received 10 samples on 18-Apr-2014 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Work Order:

1404964

Work Order Sample Summary

| Lab Samp II | Client Sample ID | <u>Matrix</u> | Tag Number | Collection Date | Date Received | <u>Hold</u> |
|-------------|------------------|---------------|------------|------------------------|-----------------|-------------|
| 1404964-01 | Side 1 | Soil | | 4/16/2014 14:25 | 4/18/2014 10:00 | |
| 1404964-02 | Side 2 | Soil | | 4/16/2014 14:30 | 4/18/2014 10:00 | |
| 1404964-03 | Side 3 | Soil | | 4/16/2014 14:35 | 4/18/2014 10:00 | |
| 1404964-04 | Side 4 | Soil | | 4/16/2014 14:40 | 4/18/2014 10:00 | ✓ |
| 1404964-05 | Side 5 | Soil | | 4/16/2014 14:45 | 4/18/2014 10:00 | |
| 1404964-06 | Side 6 | Soil | | 4/16/2014 14:50 | 4/18/2014 10:00 | |
| 1404964-07 | Bottom 1 | Soil | | 4/16/2014 14:15 | 4/18/2014 10:00 | |
| 1404964-08 | Bottom 2 | Soil | | 4/16/2014 14:20 | 4/18/2014 10:00 | |
| 1404964-09 | Duplicate | Soil | | 4/16/2014 | 4/18/2014 10:00 | |
| 1404964-10 | Side 7 | Soil | | 4/16/2014 14:55 | 4/18/2014 10:00 | |
| | | | | | | |

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Work Order:

1404964

Case Narrative

Batch 57692, Method PCB_8082_S, Sample 1404964-03A: Elevated levels of aroclor 1260 in sample caused high recovery for DCB.

Batch 57692, Method PCB_8082_S, Sample 1404964-07A: Elevated levels of aroclor 1260 in sample caused high recovery for DCB.

Date: 21-Apr-14

ALS Group USA, Corp

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

WorkOrder:

1404964

QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|----------------|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| В | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| Н | Analyzed outside of Holding Time |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| 0 | Sample amount is > 4 times amount spiked |
| P R | Dual Column results percent difference > 40% RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| Acronym | <u>Description</u> |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| Α | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| sw | SW-846 Update III |
| Units Reported | Description |
| % of sample | Percent of Sample |

% of sample

Percent of Sample

μg/Kg-dry

Micrograms per Kilogram Dry Weight

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Sample ID:

Side 1

Collection Date: 4/16/2014 02:25 PM

Work Order: 1404964

Lab ID: 1404964-01

Date: 21-Apr-14

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW808 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Arodor 1221 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Aroclor 1232 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Aroclor 1242 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Aroclor 1248 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Aroclor 1254 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Aroclor 1260 | 710 | | 120 | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| PCBs, Total | 720 | | | μg/Kg-dry | 1 | 4/18/2014 07:14 PM |
| Surr: Decachlorobiphenyl | 95.1 | | 40-140 | %REC | 1 | 4/18/2014 07:14 PM |
| Surr: Tetrachloro-m-xylene | 90.1 | | 45-124 | %REC | 1 | 4/18/2014 07:14 PM |
| MOISTURE | | | A2540 | 3 | | Analyst: AT |
| Moisture | . 33 | | 0.050 | % of samp | le 1 | 4/18/2014 03:07 PM |

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 2

Collection Date: 4/16/2014 02:30 PM

Work Order: 1404964

Lab ID: 1404964-02

Date: 21-Apr-14

| Analyses | Result (| Report Qual Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------|----------------------|-----------|------------------------|--------------------|
| PCBS | | SW80 | 82 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1221 | U | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1232 | U | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1242 | U | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1248 | ប | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1254 | U | 120 | μg/Kg-dry | 1 | 4/18/2014 07:30 PM |
| Aroclor 1260 | 130,000 | 12,000 | μg/Kg-dry | 100 | 4/21/2014 12:15 PM |
| PCBs, Total | 130,000 | | μg/Kg-dry | 100 | 4/21/2014 12:15 PM |
| Surr: Decachlorobiphenyl | 117 | 40-140 | %REC | 1 | 4/18/2014 07:30 PM |
| Surr: Tetrachloro-m-xylene | 97.1 | 45-124 | %REC | 1 | 4/18/2014 07:30 PM |
| MOISTURE | | A2540 | G | | Analyst: AT |
| Moisture | 30 | 0.050 | % of samp | ole 1 | 4/18/2014 03:07 PM |

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Collection Date: 4/16/2014 02:35 PM

Side 3

Work Order: 1404964

Lab ID: 1404964-03

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|---------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW808 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Aroclor 1221 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Aroclor 1232 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Aroclor 1242 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Arodor 1248 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Aroclor 1254 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 07:46 PM |
| Aroclor 1260 | 290,000 | | 11,000 | μg/Kg-dry | 100 | 4/21/2014 12:32 PM |
| PCBs, Total | 290,000 | | | μg/Kg-dry | 100 | 4/21/2014 12:32 PM |
| Surr: Decachlorobiphenyl | 143 | s | 40-140 | %REC | 1 | 4/18/2014 07:46 PM |
| Surr: Tetrachloro-m-xylene | 91.1 | | 45-124 | %REC | 1 | 4/18/2014 07:46 PM |
| MOISTURE | | | A2540 (| 3 | | Analyst: AT |
| Moisture | 28 | | 0.050 | % of samp | ole 1 | 4/18/2014 03:07 PM |

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Side 5

Collection Date: 4/16/2014 02:45 PM

Work Order: 1404964

Lab ID: 1404964-05

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW808 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1221 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1232 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1242 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1248 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1254 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:18 PM |
| Aroclor 1260 | 29,000 | | 1,100 | μg/Kg-dry | 10 | 4/21/2014 01:04 PM |
| PCBs, Total | 28,000 | | | μg/Kg-dry | 10 | 4/21/2014 01:04 PM |
| Surr: Decachlorobiphenyl | 107 | | 40-140 | %REC | 1 | 4/18/2014 08:18 PM |
| Surr: Tetrachloro-m-xylene | 95.1 | | 45-124 | %REC | 1 | 4/18/2014 08:18 PM |
| MOISTURE | | | A2540 | G | | Analyst: AT |
| Moisture | 26 | | 0.050 | % of samp | ole 1 | 4/18/2014 03:07 PM |

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Sample ID:

Side 6

Collection Date: 4/16/2014 02:50 PM

Cido C

Work Order: 1404964

Lab ID: 1404964-06

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW8082 | ! | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Arodor 1221 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Aroclor 1232 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Aroclor 1242 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Aroclor 1248 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Aroclor 1254 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 08:35 PM |
| Aroclor 1260 | 14,000 | | 560 | μg/Kg-dry | 5 | 4/21/2014 01:20 PM |
| PCBs, Total | 14,000 | | | μg/Kg-dry | 5 | 4/21/2014 01:20 PM |
| Surr: Decachlorobiphenyl | 96.1 | | 40-140 | %REC | 1 | 4/18/2014 08:35 PM |
| Surr: Tetrachloro-m-xylene | 89.1 | | 45-124 | %REC | 1 , | 4/18/2014 08:35 PM |
| MOISTURE | | | A2540 C | ; | | Analyst: AT |
| Moisture | 29 | | 0.050 | % of samp | le 1 | 4/18/2014 03:07 PM |

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Bottom 1

Collection Date: 4/16/2014 02:15 PM

Work Order: 1404964

Lab ID: 1404964-07

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|---------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | _ | | SW8082 | | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1221 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1232 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1242 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1248 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1254 | U | | 99 | μg/Kg-dry | 1 | 4/18/2014 09:07 PM |
| Aroclor 1260 | 400,000 | | 20,000 | μg/Kg-dry | 200 | 4/21/2014 01:36 PM |
| PCBs, Total | 410,000 | | | μg/Kg-dry | 200 | 4/21/2014 01:36 PM |
| Surr: Decachlorobiphenyl | 161 | S | 40-140 | %REC | 1 | 4/18/2014 09:07 PM |
| Surr: Tetrachloro-m-xylene | 101 | | 45-124 | %REC | 1 | 4/18/2014 09:07 PM |
| MOISTURE | | | A2540 G | ; | | Analyst: AT |
| Moisture | 16 | | 0.050 | % of samp | ole 1 | 4/18/2014 03:07 PM |

Date: 21-Apr-14

Client:

CB&I Government Solutions, Inc.

Project:

Note:

Former GST Steele 148313

Sample ID:

Collection Date: 4/16/2014 02:20 PM

Bottom 2

Work Order: 1404964

Lab ID: 1404964-08

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW808 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1221 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1232 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1242 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1248 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1254 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:23 PM |
| Aroclor 1260 | 22,000 | | 1,100 | μg/Kg-dry | 10 | 4/21/2014 01:52 PM |
| PCBs, Total | 22,000 | | | μg/Kg-dry | 10 | 4/21/2014 01:52 PM |
| Surr: Decachlorobiphenyl | 125 | | 40-140 | %REC | 1 | 4/18/2014 09:23 PM |
| Surr: Tetrachloro-m-xylene | 90.1 | | 45-124 | %REC | 1 | 4/18/2014 09:23 PM |
| MOISTURE | | | A2540 (| 3 | | Analyst: AT |
| Moisture | 29 | | 0.050 | % of samp | ole 1 | 4/18/2014 03:07 PM |

Client: CB&I Government Solutions, Inc.

Project: Former GST Steele 148313

Sample ID: Duplicate

Collection Date: 4/16/2014

Date: 21-Apr-14

Work Order: 1404964

Lab ID: 1404964-09

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|---------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW8082 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1221 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1232 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1242 | , U | | 120 | μg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1248 | U | | 120 | µg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1254 | U | | 120 | μg/Kg-dry | 1 | 4/18/2014 09:39 PM |
| Aroclor 1260 | 220,000 | | 12,000 | μg/Kg-dry | 100 | 4/21/2014 02:09 PM |
| PCBs, Total | 220,000 | | | μg/Kg-dry | 100 | 4/21/2014 02:09 PM |
| Surr: Decachlorobiphenyl | 128 | | 40-140 | %REC | 1 | 4/18/2014 09:39 PM |
| Surr: Tetrachloro-m-xylene | 91.1 | | 45-124 | %REC | 1 | 4/18/2014 09:39 PM |
| MOISTURE | | | A2540 (| 3 | | Analyst: AT |
| Moisture | 30 | | 0.050 | % of samp | le 1 | 4/18/2014 03:07 PM |

Note:

Client:

CB&I Government Solutions, Inc.

Project:

Former GST Steele 148313

Sample ID:

Side 7

Collection Date: 4/16/2014 02:55 PM

Work Order: 1404964

Lab ID: 1404964-10

Date: 21-Apr-14

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------|------|-----------------|-----------|------------------------|--------------------|
| PCBS | | | SW808 | 2 | Prep: SW3541 / 4/18/14 | Analyst: JD |
| Aroclor 1016 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Arodor 1221 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Aroclor 1232 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Aroclor 1242 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Aroclor 1248 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Aroclor 1254 | U | | 110 | μg/Kg-dry | 1 | 4/18/2014 09:55 PM |
| Aroclor 1260 | 14,000 | | 540 | μg/Kg-dry | 5 | 4/21/2014 02:25 PM |
| PCBs, Total | 14,000 | | | μg/Kg-dry | 5 | 4/21/2014 02:25 PM |
| Surr: Decachlorobiphenyl | 118 | | 40-140 | %REC | 1 | 4/18/2014 09:55 PM |
| Surr: Tetrachloro-m-xylene | 95.1 | | 45-124 | %REC | 1 | 4/18/2014 09:55 PM |
| MOISTURE | | | A2540 | G | | Analyst: AT |
| Moisture | 27 | | 0.050 | % of samp | le 1 | 4/18/2014 03:07 PM |

Client:

CB&I Government Solutions, Inc.

QC BATCH REPORT

Work Order: 1404964

Project:

Former GST Steele 148313

| | Instrument ID | GC14 | | Method: | SW8082 | | | | | | |
|--|--|--|--|--|---|--|--|--|---|---|---|
| MBLK Sa Client ID: | mple ID: PBLKS1 | | GC14_ | 140418A | s | Units: µg/l eqNo: 272 | 3702 F | Prep Date: 4/18 | | DF: 1 | 03:11 PM |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | U | 83 | | | - | | | | | |
| Aroclor 1221 | | U | 83 | | | | | | | | |
| Aroclor 1232 | | U | 83 | | | | | | | | |
| Aroclor 1242 | | U | 83 | | | | | | | | |
| Aroclor 1248 | | U | 83 | | | | | | | | |
| Aroclor 1254 | | U | 83 | | | | | | | | |
| Aroclor 1260 | | U | 83 | | | | | | | | |
| PCBs, Total | | U | 0 | | | | | | - | | |
| Surr: Decachlorobipher | nyl | 32.33 | 0 | 33.3 | 0 | 97.1 | 40-140 | 0 | | | |
| Surr: Tetrachloro-m-xyl | lene | 31.67 | 0 | 33.3 | 0 | 95.1 | 45-124 | 0 | | | |
| Analyte | riing (alifebruik | Result | PQL | SPK Val | | %REC | | Title . | %RPD | 2 4 1 | Qual |
| per la feet degriff. | | | 75011 | | | mental experimental | | | | | |
| Aradas 1016 | | 824 | 93 | 833 | Λ | 08.0 | 50_130 | n | | | |
| Aroclor 1016 | | 824 841.3 | 83 83 | 833 833 | 0 | 98.9 101 | 50-130 50-130 | 0 | | | |
| Aroclor 1260 | nvl | 841.3 | 83 | 833 | 0 | 101 | 50-130 | 0 | | | |
| | - | | | | | 101 98.1 | | | | | |
| Aroclor 1260 Surr: Decachlorobiphel Surr: Tetrachloro-m-xyl | - | 841.3 32.67 31.33 | 83 0 | 833 33.3 | 0 | 101 98.1 | 50-130 40-140 45-124 | 0 0 | The second state of the | /18/2014 | 04:16 PM |
| Aroclor 1260 Surr: Decachlorobiphel Surr: Tetrachloro-m-xyl | lene | 841.3 32.67 31.33 9-15B MS | 83 0 0 | 833 33.3 | 0 0 | 101 98.1 94.1 | 50-130 40-140 45-124 | 0 0 | is Date: 4 | /18/2014 DF: 1 | 04:16 PM |
| Aroclor 1260 Surr: Decachlorobiphel Surr: Tetrachloro-m-xyl | lene | 841.3 32.67 31.33 9-15B MS | 83 0 0 | 833 33.3 33.3 140418A | 0 0 | 101 98.1 94.1 Units: ug/ | 50-130 40-140 45-124 | 0 0 0 Analys | is Date: 4 | The American | estaettaaneskaentateeks Sk. taassaeteetees |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: | lene | 841.3 32.67 31.33 9-15B MS | 83 0 0 | 833 33.3 33.3 140418A | 0 0 0 | 101 98.1 94.1 Units: ug/ | 50-130 40-140 45-124 Kg 3706 | 0 0 0 Analys ² rep Date: 4/1 | is Date: 4 | DF: 1 | estaettaaneskaentateeks Sk. taassaeteetees |
| Aroclor 1260 Surr: Decachlorobiphei Surr: Tetrachloro-m-xyi MS Sa Client ID: Analyte | lene | 841.3 32.67 31.33 9-15B MS Run ID: | 83 0 0 | 833 33.3 33.3 | 0 0 0 8 SPK Ref | 101 98.1 94.1 Units: µg/l | 50-130 40-140 45-124 Kg 3706 F | 0 0 0 Analys Prep Date: 4/18 RPD Ref | is Date: <i>4</i> 8/2014 %RPD | DF: 1 | |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 | lene | 841.3 32.67 31.33 9-15B MS Run ID: | 83 0 0 GC14_ PQL | 833 33.3 33.3 140418A SPK Val | 0 0 0 SSPK Ref Value | 101 98.1 94.1 Units: µg/l eqNo: 272 | 50-130 40-140 45-124 Kg 3706 F | 0 0 0 Analys Prep Date: 4/1 8 RPD Ref Value | sis Date: 4 8/2014 %RPD | DF: 1 | |
| Aroclor 1260 Surr: Decachlorobiphel Surr: Tetrachloro-m-xyl | lene mple ID: 140475 9 | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 | 83 0 0 GC14 _ PQL 82 | 833 33.3 33.3 140418A SPK Val 821.2 | 0 0 0 S SPK Ref Value | 101 98.1 94.1 Units: µg/ eqNo: 272 %REC 95.2 | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 | 0 0 0 Analys Prep Date: 4/18 RPD Ref Value | sis Date: 4 8/2014 %RPD | DF: 1 | |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 Aroclor 1260 | lene mple ID: 140475 5 | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 806.4 | 83 0 0 GC14_ PQL 82 82 | 833 33.3 33.3 140418A SPK Val 821.2 821.2 | 0 0 0 S SPK Ref Value | 101 98.1 94.1 Units: µg/leqNo: 272 %REC 95.2 98.2 | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 40-140 | 0 0 0 Analys Prep Date: 4/18 RPD Ref Value 0 0 | sis Date: 4 8/2014 %RPD | DF: 1 | |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr | lene mple ID: 140475 5 | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 806.4 26.29 27.93 | 83 0 0 GC14_ PQL 82 82 0 0 | 833 33.3 33.3 140418A SPK Val 821.2 821.2 32.83 32.83 | SPK Ref Value | 101 98.1 94.1 Units: µg/l eqNo: 272 %REC 95.2 98.2 80.1 | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 40-140 40-140 45-124 | 0 0 0 Analys Prep Date: 4/18 RPD Ref Value 0 0 0 0 | sis Date: 4 8/2014 %RPD | DF: 1 | Qual |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MSD Sa Client ID: Analyte | nyl | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 806.4 26.29 27.93 9-15B MSD Run ID: | 83 0 0 GC14_ PQL 82 82 0 0 | 833 33.3 33.3 140418A SPK Val 821.2 821.2 32.83 32.83 140418A SPK Val | O O O O S SPK Ref Value O O O O S SPK Ref Value | 101 98.1 94.1 Units: µg// eqNo: 272 %REC 95.2 98.2 80.1 85.1 Units: µg// SeqNo: 272 | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 40-140 40-124 Kg 3707 F Control Limit | 0 0 0 Analys Prep Date: 4/18 RPD Ref Value 0 0 0 0 CAnalys Prep Date: 4/18 RPD Ref Value | sis Date: 4 8/2014 %RPD sis Date: 4 8/2014 | DF: 1 RPD Limit /18/2014 DF: 1 RPD Limit | Qual 04:32 PM |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MSD Sa Client ID: Analyte Aroclor 1016 | nyl | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 806.4 26.29 27.93 9-15B MSD Run ID: Result | 83 0 0 GC14_ PQL 82 82 0 0 GC14_ PQL 81 | 833 33.3 33.3 140418A SPK Val 821.2 32.83 32.83 32.83 140418A SPK Val 807.4 | O O O O O O O O O O O O O O O O O O O | 101 98.1 94.1 Units: µg// eqNo: 272 %REC 95.2 98.2 80.1 85.1 Units: µg// seqNo: 272 %REC | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 40-140 45-124 Kg 3707 F Control Limit 40-140 | Analys Prep Date: 4/18 RPD Ref Value 0 0 0 Analys Prep Date: 4/18 RPD Ref Value 781.8 | sis Date: 4 8/2014 %RPD sis Date: 4 8/2014 %RPD 0.697 | DF: 1 RPD Limit /18/2014 DF: 1 RPD Limit | Qual |
| Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MS Sa Client ID: Analyte Aroclor 1016 Aroclor 1260 Surr: Decachlorobipher Surr: Tetrachloro-m-xyr MSD Sa Client ID: Analyte | mple ID: 1404755 myl lene mple ID: 1404755 | 841.3 32.67 31.33 9-15B MS Run ID: Result 781.8 806.4 26.29 27.93 9-15B MSD Run ID: | 83 0 0 GC14_ PQL 82 82 0 0 | 833 33.3 33.3 140418A SPK Val 821.2 821.2 32.83 32.83 140418A SPK Val | O O O O S SPK Ref Value O O O O S SPK Ref Value | 101 98.1 94.1 Units: µg// eqNo: 272 %REC 95.2 98.2 80.1 85.1 Units: µg/ eqNo: 272 %REC 96.2 99.3 | 50-130 40-140 45-124 Kg 3706 F Control Limit 40-140 40-140 40-124 Kg 3707 F Control Limit | 0 0 0 Analys Prep Date: 4/18 RPD Ref Value 0 0 0 0 CAnalys Prep Date: 4/18 RPD Ref Value | sis Date: 4 8/2014 %RPD sis Date: 4 8/2014 %RPD 0.697 0.566 | /18/2014 DF: 1 RPD Limit 50 50 | Qual |

Client:

CB&I Government Solutions, Inc.

Work Order:

1404964

Project:

Former GST Steele 148313

QC BATCH REPORT

| Batch ID: 57692 | Instrument ID GC14 | Method: | SW8082 | |
|----------------------|---------------------------------|-------------|-------------|-------------|
| The following sample | es were analyzed in this batch: | 1404964-01A | 1404964-02A | 1404964-03A |
| | | 1404964-04A | 1404964-05A | 1404964-06A |
| | • | 1404964-07A | 1404964-08A | 1404964-09A |
| | | 1404964-10A | | |

Client:

CB&I Government Solutions, Inc.

Work Order:

1404964

Project:

Former GST Steele 148313

| Batch ID: R139271 | Instrument ID MOI | ST | | Metho | d: A2540 | G | | | | | |
|-------------------|------------------------------|--------|------------------------|--------------------------|-----------------|--|-----------|-------------------------|---------------|----------|---------------------------|
| MBLK | Sample ID: WBLKS-R13 | 9271 | ing straigh Mariana | | Merall ac | Units: % | of sample | Ana | lysis Date: 4 | /18/2014 | 03:07 PM |
| Client ID: | | Run ID | : MOIST | _140418D | | SeqNo: 2 | 721759 | Prep Date: | | DF; 1 | recentado Contrato das |
| | | | | | SPK Ref | | Control | RPD Ref | | RPD | |
| Analyte | | Result | PQL | SPK Val | Value | %RE | C Limit | Value | %RPD | Limit | Qual |
| Moisture | | U | 0.050 | | | | | | | | |
| LCS | Sample ID: LCS-R13927 | 1 | | | | Units: % | of sample | Ana | lysis Date: 4 | /18/2014 | 03:07 PM |
| Client ID; | | Run ID | : MOIST | _140418D | | SeqNo: 2 | 721758 | Prep Date: | | DF: 1 | |
| | | | | | SPK Ref | | Control | a contract of the | | RPD | |
| Analyte | | Result | PQL | SPK Val | Value | %RE | C Limit | Value | %RPD | Limit | Qual |
| Moisture | | 100 | 0.050 | 100 | | 0 100 | 99.5-100 | .5 | 0 | | |
| DUP | Sample ID: 1404964-10 | N DUP | | | | Units: % | of sample | Ana | lysis Date: 4 | /18/2014 | 03:07 PM |
| Client ID: Side 7 | | Run ID | : MOIST | _140418D | a 14 7 | SegNo: 27 | 721747 | Prep Date: | | DF::1 | |
| | | | 779 | | SPK Ref | | Control | RPD Ref | | RPD | |
| Analyte | | Result | PQL | SPK Val | Value | %RE | C Limit | Value | %RPD | Limit | Qual |
| Moisture | | 26.39 | 0.050 | 0 | | 0 (| 0-0 | 26. | 87 1.8 | 20 | |
| DUP | Sample ID: 1404991-01/ | DUP | aki nasa | | | Units: % | of sample | Ana | lysis Date: 4 | /18/2014 | 03:07 PM |
| Client ID: | | Run ID | : MOIST | _140418D | | SeqNo: 2 | 721757 | Prep Date: | EZYST. | DF: 1 | |
| | | | | | SPK Ref | | Control | RPD Ref | | RPD | |
| Analyte | | Result | PQL | SPK Val | Value | %RE | C Limit | Value | %RPD | Limit | Qual |
| Moisture | | 16.64 | 0.050 | 0 | <u>.</u> | 0 (| 0-0 | 16. | 46 1.09 | 20 | |
| The following sam | ples were analyzed in this | batch: | 1 | 404964-01A | 14 | 104964-02 <i>F</i> | 14 | 04964-03A | | | |
| | | | | 404964-04A 404964-07A | | 104964-05 <i>1</i> 104964-08 <i>1</i> | | 04964-06A 04964-09A | | | |
| | | | | 404964-07A 404964-10A | 12 | 104804-066 | 14 | U -1 804-08A | | | |

QC BATCH REPORT



Cincinnati, OH +1 513 733 5336

+1 616 399 6070 +1 425 356 2600

Fort Collins, CO +1 970 490 1511

Holland, MI

Chain _. Custody Form

92944

Page /

COC ID:

Houston, TX +1 281 530 5656

Spring City, PA +1 610 948 4903

Sout leston, WV +1 304 356 3168

Middletown, PA +1 717 944 5541

Salt Lake City, UT +1:801 266 7700

+1 717 505 5280

| 100 | | - | · | | |
|-----|-----|--------|-------------|----------|----------|
| | | e - 14 | 2 22 | 1.2.2 | _ = _ = |
| | ıuı | ıro | | ler | ital |
| | | 1 | 100 100 100 | 150 20 2 | 10 DM 77 |

| Enviro | nmental | | ALS | Project Manager | | ALS Work 0 | rder# 14 o4 | 91.4 |
|------------------------|---|---|----------------------------------|----------------------|------------|---------------------------------|----------------------|---------------------------------------|
| С | ustomer Information | 1 | Project Information | | Pai | rameter/Method Re | | |
| Purchase Order | | Project Name | Former GST Steele | | A PCB-8082 | | | * ,i |
| Work Order | | Project Number | 148313 | | E | | | |
| Company Name | CB&I - Lexana | Bill To Company | C B&I Government S | Solutions, Inc | G | | | |
| Send Report To | Mark Firmey | Invoice Attri | AIP | | . 6 | | | |
| Address | 11208 Thompson Avenue | Address | 8116 Wilson Road | | E F | | | |
| City/State/Zip | Leneva, KS 66219 | Gity/State/Zip | Kansas City, MO 64 | 1125 | G | | | i |
| Phone | (913) 317-3591 | Phone | | | H | | | |
| AL FEX | | Fax | | | 1 | | 11. 1. 1. | |
| e-Mail Address | mark.finney@cbi.com | e-Mail Address | ap.invoices@CBI.com | m | J | DE METERS | | . 4 |
| Ng, | Sample Description | Date 1 | Time Metrix | Pres. # Bottles | A B C | D E F | G H I | i Hole |
| 1 Side | | 4-16-14 14 | 125 5011 | 8 / | \times | () () () () () () () () | | |
| 2 5.du | 2 | 14/2 | 30 1 | | 1/3/2 - T | | | 1.79 |
| 3 Side | | 15 | 35. | | | | | |
| 4 Side | 4 | 1474 | 400 | | | | | ス |
| 5 5:de | 5 | 14 | 45 | | | | | |
| 6 5.dr | 6 | 14 | 50 | | 1 1 | | | |
| 7 Bottom | 1 | | 415 | | | | | |
| B Botton | ,2 | 1 | 130 | | 2 4 | | | 3(5 |
| 9 Dupl | cate | Y - | | V | Y | | | , , , , , , , , , , , , , , , , , , , |
| 10 51de | 7 Marie 1 de 1 1 | the transfer of the Marketine of | 152 W | AA | V | | | |
| Sampler(s) Please Pl | | Shipment Met | | d Turnaround Time: (| Check Box) | WK Days 24 Hour | Results Due Date | 14 |
| Relinguished 1 | | | ived by: | | Notos: 4 4 | well Side | 4 | |
| | 117-14 1/13 19:17-14 | ime: Rece | ived by (Laboratory): | 10.44 | | iler Temp. OC Package: | (Ghack One Box Balow |) |
| Logged by (Laboratory) | 117-14-113 417-14 | ime: Gnec | ked by (Laboratory): | 1900 1 4/15 kg | 31 | D _C Level | | TRRP CheckList |
| ///- | 4 8 4 | 1035 | 3-NaHSO ₄ 7-Other | 8=450 × 9+5035 | 4.1 | Lc Level | IV SW846/CLP | _] LUTTE FEASITA |
| Preservative Key: | 1=HOL 2=HNO ₅ 3=H ₅ SO ₄ 4=Na0 |)H 5-Na ₂ S₂O₃ (| anianiao _{ks} reduide (| 0 100 3-0000 | | Other | /EUD | |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.



10450 Stancliff Road, Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

| Client: _C | BAI | | Date: _ | 411 | 7.14 WO#: | | |
|------------|--------------------|-------|---------|-----------|--------------------|-------|--|
| Time Rece | eived: <u>9.13</u> | 0 | Rec | eived by: | SE | | |
| Matrices: | Solid/Sludge | Water | Oil | Wipes | Hydrocarbon Liquid | Other | |

| | Kit ID/Cooler ID | Trip Blank ID | Cooler Temp (C) Observed/Corrected | IR# | Temp BLK Present? |
|---|------------------|---------------|------------------------------------|-----|-------------------|
| | 1268 | | 0.3 / 0.3 | | Y N |
| - | | | 1 | | Y N |
| | | | 1 | | Y N |

Delivery Methods:

ALS

UPS

Greyhound

Other

| Date/Time of Unpacking: 10.133 4.1 | 7.14 Uni | packed b | iy - | יי כ | e m - wer wet her man all | |
|---|--|-----------|----------|---------------|---------------------------|------------------|
| Shipping container/cooler in good-condition? | State of the state | @Y | No | Not Present | | |
| Custody seals intact on shipping container/cool | er? | Yes | No | Not Present | | |
| Custody seals intact on sample bottles? | Ser | Yes | No | Not Present | 1 | 2) |
| Chain of custody present? | | CO ! | No | | | |
| Chain of custody signed when relinquished and | received? | R. | No | | \$ e | · · · · |
| Chain of custody agrees with sample labels? | ` * | (PER | No | | | n e š |
| Samples in proper container/bottle? | * | 0 | No | | | |
| Sample containers intact? | 40 | | No | | | |
| Sufficient sample volume for indicated test? | | (E) | No. | ō | 3 | × |
| All samples received within holding time? | | 6 | No | | | |
| Container/Temp Blank temperature in compliant | ce? | (Yes | No | | | |
| Water - VOA vials have zero headspace? | 10 mg | Yes | No | No VOA vials | submitte | |
| Water - pH acceptable upon receipt? | | Yes | No | | | |
| pH adjusted? | ž | Yes | No | NA | ¥ | (4) |
| pH adjusted by: | See Preservati | | | | | |
| nii Panor Lati | VOA/TY100 | 5/1006 50 | olids in | Sealed Vials: | Y or h | Ч |

TRIV 8052 9842 3905

THU - 17 APR 10:30A Priority Overnight

NC-SGRA

77C

IX-US



ALS LEGITORES METAL

ALS LEGITORES AND STREET CONTROL STREET CONTR

Sample Receipt Checklist

| Client Name: C | B&I - LENEXA | | | | Date/Time | Received: | <u>18-4</u> | Apr-14 | <u>10:00</u> | | |
|---------------------|---|-----------------|----------------|--------------|--------------------|------------------|-------------|--------|--------------|--------|--------|
| Work Order: 1 | <u>404964</u> | | | | Received b | y: | <u>JR</u> | | | | |
| Checklist complet | Joseph Ribar eSignature | 18 | -Apr-14 | _ | Reviewed by: | Chad 'eSignature | | ton | | 18- | Apr-14 |
| Matrices: | <u>soil</u> | | Date | | | colgilature | | | | I | Date |
| Carrier name: | FedEx | | | | | | | | | | |
| Shipping containe | er/cooler in good condition? | | Yes | V | No 🗌 | Not Pr | esent | | | | |
| Custody seals into | act on shipping container/coole | r? | Yes | V | No 🗆 | Not Pr | esent | | | | |
| Custody seals into | act on sample bottles? | | Yes | | No 🗌 | Not Pr | esent | ✓ | | | |
| Chain of custody | present? | | Yes | V | No 🗌 | | | | | | |
| Chain of custody | signed when relinquished and ı | received? | Yes | ✓ | No 🗆 | | | | | | |
| Chain of custody | agrees with sample labels? | | Yes | V | No 🗌 | | | | | | |
| Samples in prope | er container/bottle? | | Yes | ✓ | No 🗌 | | | | | | |
| Sample container | rs intact? | | Yes | ✓ | No 🗌 | | | | | | |
| Sufficient sample | volume for indicated test? | | Yes | ✓ | No 🗌 | | | | | | |
| All samples receive | ved within holding time? | | Yes | ✓ | No 🗆 | | | | | | |
| Container/Temp E | Blank temperature in complianc | e? | Yes | ✓ | No 🗌 | | | | | | |
| Sample(s) receive | | | Yes | ✓ | No 🗆 | | | | | | |
| Temperature(s)/T | hermometer(s): | | 3.2 c | | | | | | | | |
| Cooler(s)/Kit(s): | | | | | | | | | | | |
| • | e(s) sent to storage: s have zero headspace? | | 4/18/20 Yes | <u>014 1</u> | 0:42:28 AM No 🗔 | No VOA vi | ials subr | nitted | ✓ | | |
| | stable upon receipt? | | Yes | | No 🗌 | N/A ⊻ |] | | | | |
| pH adjusted? | | | Yes | | No 🗀 | N/A | | | | | |
| pH adjusted by: | | | _ | | | | | | | | |
| Login Notes: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | _== | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Client Contacted: | | Date Contacted: | | | Person | Contacted | | | | | |
| Contacted By: | | Regarding: | | | | | | | | | |
| Comments: | | | | | | | | | | | |
| John Morrida | | | | | | | | | | | |
| CorrectiveAction: | | | | | | | | | | | |
| Corrective/Action. | | | | | | | | | SRC | : Page | 1 of 1 |



May 12, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

www.alsglobal.com

Work Order: HS14050286

Laboratory Results for: Former GST Steele PCB 148313

Dear Mark,

ALS Environmental received 4 sample(s) on May 08, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Ana.Spencer Bethany McDaniel Project Manager

Bethany Mc Daniel

| ALS Group US | A, Corp | | | | Date: 12- | May-14 |
|------------------------------------|---|--------|-------|-------------------|-------------------|--------|
| Client: Project: Work Order: | CB&I - Lexana Former GST Steele PCB 148313 HS14050286 | | | | SAMPLE SUMI | MARY |
| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
| HS14050286-01 | SIDE 8 | Soil | | 07-May-2014 11:45 | 08-May-2014 09:15 | |
| HS14050286-02 | SIDE 9 | Soil | | 07-May-2014 12:01 | 08-May-2014 09:15 | |
| HS14050286-03 | воттом з | Soil | | 07-May-2014 12:13 | 08-May-2014 09:15 | |
| HS14050286-04 | BOTTOM 13 | Soil | | 07-May-2014 12:13 | 08-May-2014 09:15 | |

Date:

CASE NARRATIVE

12-May-14

Client: Project: CB&I - Lexana

Former GST Steele PCB 148313

Work Order: HS14050286

No Exceptions

12-May-14

Client:

CB&I - Lexana

07-May-2014 11:45

79.7

ANALYTICAL REPORT

09-May-2014 14:09

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

Lab ID:HS14050286-01

Collection Date:

Surr: Tetrachloro-m-xylene

SIDE 8

Matrix:Soil

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--------------------------|--------|--|-----------------|---------|--------------------|----------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SV | V3541/3665A / 09 | May-2014 Analyst: SE |
| Aroclor 1016 | ND | * The state of the | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1221 | ND | | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1232 | ND | | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1242 | ND | and the second s | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1248 | ND | | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1254 | ND | | 17 | ug/Kg | 1 | 09-May-2014 14:09 |
| Aroclor 1260 | ND | | 17 | ug/Kg | 1 . | 09-May-2014 14:09 |
| Surr: Decachlorobiphenyl | 95.3 | | 54-143 | %REC | 1 | 09-May-2014 14:09 |

55-137

%REC

1

Note: See Qualifiers Page for a list of qualifiers and their explanation.

12-May-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

SIDE 9

Lab ID:HS14050286-02

Collection Date: 07-May-2014 12:01

Matrix:Soil

| ANALYSES | RESULT QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|---------------|-----------------|---------|--------------------|----------------------|
| PCBS BY SW8082A | Method:SW8082 | | Prep:SW | /3541/3665A / 09 | May-2014 Analyst: SE |
| Aroclor 1016 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Aroclor 1221 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Arocior 1232 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Aroclor 1242 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Aroclor 1248 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Aroclor 1254 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Aroclor 1260 | ND | 17 | ug/Kg | 1 | 09-May-2014 14:55 |
| Surr: Decachlorobiphenyl | 105 | 54-143 | %REC | 1 | 09-May-2014 14:55 |
| Surr: Tetrachloro-m-xylene | 85.5 | 55-137 | %REC | 1 | 09-May-2014 14:55 |

12-May-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

BOTTOM 3

Lab ID:HS14050286-03

Collection Date:

07-May-2014 12:13

Matrix:Soil

| ANALYSES | SES RESULT QUAL REPORT | | UNITS | DILUTION FACTOR | DATE ANALYZED | |
|----------------------------|------------------------|--|--------|--------------------|-------------------|----------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW | /3541/3665A / 09- | May-2014 Analyst: SE |
| Aroclor 1016 | ND | | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1221 | ND | | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1232 | ND | | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1242 | ND | · · · · · · · · · · · · · · · · · · · | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1248 | ND | | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1254 | ND | *************************************** | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Aroclor 1260 | 24 | | 17 | ug/Kg | 1 | 09-May-2014 15:10 |
| Surr: Decachlorobiphenyl | 98.6 | CONTINUES OF THE PROPERTY OF T | 54-143 | %REC | 1 | 09-May-2014 15:10 |
| Surr: Tetrachloro-m-xylene | 82.3 | | 55-137 | %REC | 1 | 09-May-2014 15:10 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

12-May-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050286

Sample ID:

BOTTOM 13

Lab ID:HS14050286-04

Collection Date:

07-May-2014 12:13

Matrix:Soil

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION | DATE ANALYZED | |
|----------------------------|--------|--|-----------------|---------|------------------|------------------|---------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW | /3541/3665A / 09 | May-2014 Analy | /st: SE |
| Aroclor 1016 | ND | INDEPENDENT TO THE PROPERTY OF | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1221 | ND | A-13-14 A-13-14-14-14-14-14-14-14-14-14-14-14-14-14- | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1232 | ND | | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1242 | ND | terna situatika aitaita aitaita aitaita aita aita | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1248 | ND | | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1254 | ND | | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Aroclor 1260 | ND | | 17 | ug/Kg | 1 | 09-May-2014 1 | 15:25 |
| Surr: Decachlorobiphenyl | 88.8 | | 54-143 | %REC | 1 | 09-May-2014 | 15:25 |
| Surr: Tetrachloro-m-xylene | 73.5 | | 55-137 | %REC | 1 | 09-May-2014 | 15:25 |

Client:

HS14050286-04

CB&I - Lexana

BOTTOM 13

Project:

Former GST Steele PCB 148313

WorkOrder: HS14050286

| Sample ID | Client Samp ID | Collection Date | TCLP Date | Prep Date | Analysis Date | DF |
|---------------|----------------|---------------------|-----------|-------------------|--|----|
| Batch ID 817 | 78 Test Nai | me: PCBS BY SW8082A | | file in a Matrix: | Soil The Control of t | |
| HS14050286-01 | SIDE 8 | 07 May 2014 11:45 | | 09 May 2014 08:48 | 09 May 2014 14:09 | 1 |
| HS14050286-02 | SIDE 9 | 07 May 2014 12:01 | | 09 May 2014 08:48 | 09 May 2014 14:55 | 1 |
| HS14050286-03 | В ВОТТОМ 3 | 07 May 2014 12:13 | | 09 May 2014 08:48 | 09 May 2014 15:10 | 1 |

09 May 2014 08:48

07 May 2014 12:13

Date:

09 May 2014 15:25

DATES REPORT

12-May-14

1

12-May-14

Client:

CB&I - Lexana

WorkOrder:

HS14050286

Project:

Former GST Steele PCB 148313

QC BATCH REPORT

| Batch ID: 81778 | | 190 | Instrum | nent: | ECD_7 | | Metho | d: SW808 | 32 | | |
|--|---------------------------------------|---|--|---|--|---|--|--------------------------------------|------------------------|---------------------------------------|------|
| MBLK | Sample ID: | MBLK-81778 | | | Units: | ug/Kg | Ana | llysis Date: | 09-May-2 | 2014 16:11 | |
| Client ID: | | | Run ID: | ECD_7_ | 233466 | SeqNo | 2829902 | PrepDate: | 09-May-2 | 2014 DI | :1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | ND | 17 | | | | | | | | |
| Aroclor 1221 | | ND | 17 | | | | | | | | |
| Aroclor 1232 | | ND | 17 | | | | | | | | |
| Aroclor 1242 | | ND | 17 | | | | | | | | |
| Aroclor 1248 | | ND | 17 | | | | | | | | |
| Aroclor 1254 | | ND | 17 | | | | | | | | |
| Aroclor 1260 | | ND | 17 | | | | | | | | |
| Surr: Decachlorobi | phenyl | 7.093 | 1.6 | 6.667 | 0 | 106 | 54 - 143 | | | | |
| Surr: Tetrachloro-n | n-xylene | 6.209 | 1.6 | 6.667 | 0 | 93.1 | 55 - 137 | | • | | |
| LCS | Sample ID: | LCS-81778 | | | Units: | ug/Kg | Ana | lysis Date: | 09-May-2 | 2014 16:26 | |
| Client ID: | · | | Run ID: | ECD_7_ | | | 2829903 | PrepDate: | 09-May-2 | 2014 DF | F: 1 |
| Analyte | | | | | SPK Ref | | Control | RPD Ref | | RPD | |
| y.c | | Result | PQL | SPK Val | Value | %REC | Limit | Value | %RPD | Limit | Qual |
| Aroclor 1016 | | Result 168.7 | PQL 17 | 166.7 | Value 0 | %REC 101 | Limit 53 - 135 | Value | %RPD | | Qual |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | Value | %RPD | | Qual |
| Aroclor 1016 | phenyl | 168.7 | 17 | 166.7 | 0 | 101 | 53 - 135 | Value | %RPD | | Qual |
| Aroclor 1016 Aroclor 1260 | · · · · · · · · · · · · · · · · · · · | 168.7 195.4 | 17 | 166.7 166.7 | 0 | 101 117 | 53 - 135 54 - 137 | Value | %RPD | | Qual |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobi | · · · · · · · · · · · · · · · · · · · | 168.7 195.4 8.442 | 17 17 1.6 | 166.7 166.7 6.667 | 0 0 0 | 101 117 127 108 | 53 - 135 54 - 137 54 - 143 55 - 137 | Value | | Limit | Qual |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobi, Surr: Tetrachloro-n | n-xylene Sample ID: | 168.7 195.4 8.442 7.185 HS14050286-01 | 17 17 1.6 | 166.7 166.7 6.667 | 0 0 0 0 | 101 117 127 108 ug/Kg | 53 - 135 54 - 137 54 - 143 55 - 137 | | 09-May-2 | Limit | Qual |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobij Surr: Tetrachloro-n | n-xylene Sample ID: | 168.7 195.4 8.442 7.185 HS14050286-01 | 17 17 1.6 1.6 VIS Run ID: | 166.7 166.7 6.667 | 0 0 0 0 | 101 117 127 108 ug/Kg | 53 - 135 54 - 137 54 - 143 55 - 137 | ılysis Date: | 09-May-2 | Limit | |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobi, Surr: Tetrachloro-n MS Client ID: SIDE 8 | n-xylene Sample ID: | 168.7 195.4 8.442 7.185 HS14050286-01 | 17 17 1.6 1.6 VIS Run ID: | 166.7 166.7 6.667 6.667 | 0 0 0 0 Units: 1 233466 SPK Ref | 101 117 127 108 ug/Kg SeqNo: | 53 - 135 54 - 137 54 - 143 55 - 137 Ana 2829897 Control | nlysis Date: PrepDate: RPD Ref | 09-May-2 : 09-May-2 | Limit 2014 14:25 2014 DF RPD | =:1 |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobi, Surr: Tetrachloro-n MS Client ID: SIDE 8 Analyte | n-xylene Sample ID: | 168.7 195.4 8.442 7.185 HS14050286-01 | 17 17 1.6 1.6 1.6 WIS Run ID: | 166.7 166.7 6.667 6.667 ECD_7_ SPK Val | 0 0 0 Units: 1 233466 SPK Ref Value | 101 117 127 108 ug/Kg SeqNo: | 53 - 135 54 - 137 54 - 143 55 - 137 Ana 2829897 Control Limit | nlysis Date: PrepDate: RPD Ref | 09-May-2 : 09-May-2 | Limit 2014 14:25 2014 DF RPD | =:1 |
| Aroclor 1016 Aroclor 1260 Surr: Decachlorobij Surr: Tetrachloro-n MS Client ID: SIDE 8 Analyte Aroclor 1016 | n-xylene Sample ID: | 168.7 195.4 8.442 7.185 HS14050286-01 | 17 17 1.6 1.6 1.6 WIS Run ID: PQL | 166.7 166.7 6.667 6.667 ECD_7_ SPK Val | 0 0 0 0 Units: 1 233466 SPK Ref Value | 101 117 127 108 ug/Kg SeqNo: %REC | 53 - 135 54 - 137 54 - 143 55 - 137 Ana 2829897 Control Limit | nlysis Date: PrepDate: RPD Ref | 09-May-2 : 09-May-2 | Limit 2014 14:25 2014 DF RPD | =:1 |

Client:

Project:

CB&I - Lexana

WorkOrder:

HS14050286

Former GST Steele PCB 148313

Date:

QC BATCH REPORT

12-May-14

| | | Instrum | ent: | EGD_7 | | Metho | d: SW808 | 2 | | |
|------------|----------------|------------------------------------|--|---|--|---|---|--|--|--|
| Sample ID: | HS14050286-01N | ISD | | Units: (| ug/Kg | Ana | lysis Date: | 09-May-201 | 4 14:40 | |
| | F | Run ID: | ECD_7_2 | 233466 | SeqNo | 2829898 | PrepDate: | 09-May-201 | 4 DF | :1 |
| | Result | PQL: | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qua |
| | 173.9 | 17 | 166.2 | 0 | 105 | 53 - 135 | 178.7 | 2.69 | 30 | |
| | 175.2 | 17 | 166.2 | 0 | 105 | 54 - 137 | 176.3 | 0.585 | 30 | |
| phenyl | 7.633 | 1.6 | 6.647 | 0 | 115 | 54 - 143 | 7.727 | 1.22 | 30 | |
| -xylene | 6.509 | 1.6 | 6.647 | 0 | 97.9 | 55 - 137 | 6.532 | 0.352 | 30 | |
| | phenyl | Result 173.9 175.2 phenyl 7.633 | Sample ID: HS14050286-01MSD Run ID: Result PQL 9 173.9 17 175.2 17 20henyl 7.633 1.6 | Sample ID: HS14050286-01MSD Run ID: ECD_7_3 Result PQL SPK Val 173.9 17 166.2 175.2 17 166.2 20henyl 7.633 1.6 6.647 | Sample ID: HS14050286-01MSD Units: Run ID: ECD_7_233466 Result PQL SPK Val SPK Ref Value 173.9 17 166.2 0 175.2 17 166.2 0 0henyl 7.633 1.6 6.647 0 | Sample ID: HS14050286-01MSD Units: ug/Kg Run ID: ECD_7_233466 SeqNo: SPK Ref Result PQL SPK Val Value %REC 173.9 17 166.2 0 105 175.2 17 166.2 0 105 ohenyl 7.633 1.6 6.647 0 115 | Sample ID: HS14050286-01MSD Units: ug/Kg Ana Run ID: ECD_7_233466 SeqNo: 2829898 SPK Ref Result PQL SPK Val Value %REC Control Limit 173.9 17 166.2 0 105 53 - 135 175.2 17 166.2 0 105 54 - 137 shenyl 7.633 1.6 6.647 0 115 54 - 143 | Sample ID: HS14050286-01MSD Units: ug/Kg Analysis Date: Run ID: ECD_7_233466 SeqNo: 2829898 PrepDate: Result PQL SPK Val SPK Ref Value Control Limit RPD Ref Value 173.9 17 166.2 0 105 53 - 135 178.7 175.2 17 166.2 0 105 54 - 137 176.3 shenyl 7.633 1.6 6.647 0 115 54 - 143 7.727 | Sample ID: HS14050286-01MSD Units: ug/Kg Analysis Date: 09-May-201 Run ID: ECD_7_233466 SeqNo: 2829898 PrepDate: 09-May-201 SPK Ref Value REC Control RPD Ref Value REC Limit Value RPD 173.9 17 166.2 0 105 53 - 135 178.7 2.69 175.2 17 166.2 0 105 54 - 137 176.3 0.585 shenyl 7.633 1.6 6.647 0 115 54 - 143 7.727 1.22 | Sample ID: HS14050286-01MSD Units: ug/Kg Analysis Date: 09-May-2014 14:40 Run ID: ECD_7_233466 SeqNo: 2829898 PrepDate: 09-May-2014 DF Result PQL SPK Val SPK Ref Value Control RPD Ref Value RPD Limit 173.9 17 166.2 0 105 53 - 135 178.7 2.69 30 175.2 17 166.2 0 105 54 - 137 176.3 0.585 30 shenyl 7.633 1.6 6.647 0 115 54 - 143 7.727 1.22 30 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Unit Reported

μg/Kg

Description

Micrograms per Kilogram

Date:

12-May-14

Client: CB&I - Lexana QUALIFIERS, Former GST Steele PCB 148313

| Project: | Former GST Steele PCB 148313 | ACRONYMS, UNITS |
|------------|---|-----------------|
| WorkOrder: | HS14050286 | |
| Qualifier | Description | |
| * | Value exceeds Regulatory Limit | |
| а | Not accredited | |
| В | Analyte detected in the associated Method Blank above the Reporting Limit | |
| E | Value above quantitation range | |
| Н | Analyzed outside of Holding Time | |
| J | Analyte detected below quantitation limit | |
| М | Manually integrated, see raw data for justification | |
| n | Not offered for accreditation | |
| ND | Not Detected at the Reporting Limit | |
| 0 | Sample amount is > 4 times amount spiked | |
| Р | Dual Column results percent difference > 40% | |
| R | RPD above laboratory control limit | |
| s | Spike Recovery outside laboratory control limits | |
| U | Analyzed but not detected above the MDL | |
| Acronym | Description | |
| DCS | Detectability Check Study | |
| DUP | Method Duplicate | |
| LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicate | |
| MBLK | Method Blank | |
| MDL | Method Detection Limit | |
| MQL | Method Quantitation Limit | |
| MS | Matrix Spike | |
| MSD | Matrix Spike Duplicate | |
| PDS | Post Digestion Spike | |
| PQL | Practical Quantitaion Limit | |
| SD | Serial Dilution | |

12-May-14

CERTIFICATIONS, ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|-----------------|------------------------|-------------|
| Arkansas | AR - 2014 | 27-Mar-2015 |
| California | 06248CA 2013-2014 | 31-Jul-2014 |
| Dept of Defense | L2231 Rev 3-20-2014 | 22-Dec-2015 |
| Illinois | 003403 | 09-May-2015 |
| Kansas | E-10352 8/15/2013-2014 | 31-Jul-2014 |
| Louisiana | 03087 2013/2014 | 30-Jun-2014 |
| North Carolina | 624 - 2014 | 31-Dec-2014 |
| Oklahoma | 2013-024 | 31-Aug-2014 |
| Texas | TX104704231-14-13 | 30-Apr-2015 |

Date:

12-May-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order: HS14050286

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|-----------------|--------|--------------|
| HS14050286-01 | SIDE 8 | Login | 08-May-14 01:10 | DRC | 23A |
| HS14050286-02 | SIDE 9 | Login | 08-May-14 01:10 | DRC | 23A |
| HS14050286-03 | ВОТТОМ 3 | Login | 08-May-14 01:10 | DRC | 23A |
| HS14050286-04 | BOTTOM 13 | Login | 08-May-14 01:10 | DRC | 23A |

12-May-14

| Client Name: CBI-Lexa Work Order: HS14050 | | | | Time Received: ved by: | Sample Receipt Checklist 08-May-2014 09:15 DRC |
|---|---|-----------------|---|---------------------------|--|
| Checklist completed by: | Dana.Capps eSignature | 8-May-201 | Reviewed by: | Bethany Mo | CDaniel 9-May-2014 Date |
| Matrices: <u>Soil</u> | | | Carrier name: | ALS Courie | er er |
| Shipping container/cooler Custody seals intact on sh Custody seals intact on sa Chain of custody present? Chain of custody signed w Chain of custody agrees w Samples in proper contain Sample containers intact? Sufficient sample volume All samples received withi Container/Temp Blank ter Temperature(s)/Thermom | nipping container/cooler? ample bottles? when relinquished and rece with sample labels? ner/bottle? for indicated test? in holding time? mperature in compliance? | vived? | Yes V O.3/0.3 C/U | No | Not Present Not Pr |
| Cooler(s)/Kit(s): | (6) | | 6040 | | III.O |
| Date/Time sample(s) sent | to storage: | | 05/08/2014 | | |
| Water - VOA vials have ze Water - pH acceptable up pH adjusted? pH adjusted by: | | | Yes Yes Yes | No No | No VOA vials submitted N/A N/A |
| Login Notes: | | | | | |
| Client Contacted: | | Date Contacted: | | Person Con | tacted: |
| Contacted By: 0 | | Regarding: | | | |
| Corrective Action: | | _ | | | |



Cincinnati, OH +1 513 733 5336 Everett, WA +1 425 356 2600

Fort Collins, CO +1 970 490 1511 Holland, MI +1 616 399 6070 Chain o. Custody For

Page _1

COC ID:

CB&I - Lexana

Former GST Steele PCB 148313

| | 11111 | | | | 1 | | | ALS Projer | ct Manager: | | | | | | الناكال | | | | <i>A</i> ' | 1 (1885)21) |
|------------------------|--------------------------|--------------|-------|-----------------------------------|------------------|---------------------------------|----------------------|------------|--|-------|---------|--------------|---------------|------------|--------------|-----------|--------------------------------------|---|---|-----------------------------|
| 1 | Customer Information | n | | | | | ct Informa | ation | | I | | | | | | | | | | |
| Purchase Order | 840738 | | P | roject Na | ame | For | mer GST S | teele | | A | PCI | B-8082 | | | | | | | · ! | |
| Work Order | | | Pro | ject Num | nber | | | | | В | | | | | | | | Ì | | |
| Company Name | CB&I - Lexana | | Bill | To Comp | pany | C B&I Government Solutions, Inc | | | C | | | | | | | | | | | |
| Send Report To | Mark Finney | | | Invoice | Attn | A/P | | | D | | | | | | | | | | | |
| Address | 11206 Thompson Av | /enue | | Addr | ress | \$64 | | | | | | | | | | | | | | |
| City/State/Zip | Lenexa, KS 66219 | | C | City/State/Zjp | | | sas City, M | AO 64125 | | G | | | | ····· | | | | | | |
| Phone | (913) 317-3591 | | | Ph | hone | | | | | H | | | | | | | | | *************************************** | |
| Fax | | | | | Fax | | ······ | | | 1 | | | | | | **** | | 1: | *************************************** | |
| e-Mail Address | mark.finney@cbi.cor | m | e-N | Vail Addr | ress | ap.ir | nvoices@C | :Bl.com | | J | | | | | | | | | | |
| No. | Sample Description | | Dat | te | TI | me | Matrix | Pres. | # Bottles | A | В | į, C | D |) E | F | G | H | | J | Hold |
| 1 SIDE 8 | 7 | · | 5/7 | 414 | 114 | 5 | Soil | 1 - | | X | \ | | | | | | | · : : : : : : : : : : : : : : : : : : : | | |
| 2 3/DE 9 | 3 | | | | 120 | 01 | | | 1 | | | | | | | | | | | |
| 3 Borros | <i>y</i> 3 | | | | 121 | 13_ | | | 1 | | | | L | | | | | <u> </u> | | |
| 4 BOTTON | | | | | 12. | | | | 1 | } | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | V | | | | | | | | 1 | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | 1 | | | | | 1 | | | | | |
| 10 | | | | | | | | | | | 1 | | | | | | | | | |
| Sampler(s) Please P | | | | Shipmen | nt Meth | od | Re | | around Time: (0 WK Dava | 5W | K Days | \$ 2° | iher WK De | 48 | H63 24 Ho | | lesults I | Jue Da | te: | |
| Relinquished by: | procos | Dates Afth | Time: | المحاد | Receive | = | | | | Notes | ; | | | | | | | | | |
| Relinquished by: | | 5.8.14 | Time: | 5 | Receiv | red by (La | boratory): | | | Co | oler ID | Cóol | ler Temp | | | | | ox Belo | | |
| Logged by (Laboratory) | | Date: | Time: | | Check | ed by (Lai | boratory): | T. | | | | | 2.50 | | Lev | | I QC I QC/R <i>a</i> i NB46/CL | | | RP CheckList RP Level IV |
| Preservative Kev: | 1-HCI 2-HNO ₁ | 3-H,SO, 4-Na | aOH 5 | -Na ₂ S ₂ O | J ₃ 6 | NaHSO |) ₄ 7-0th | her 8-4°C | 9-5035 | 1000 | | | | | T Off | ser / EDI | o o | , | į | - I - I |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document, All information must be completed accurately.

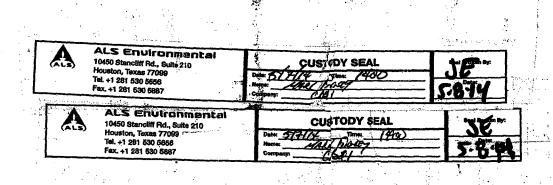
Copyright 2011 by ALS Environmental.

8013 7714 2912

THU - 08 MAY 10:30A PRIORITY OVERNIGHT

AB SGRA

77099 IAH _{su-xt}





June 04, 2014

Mark Finney CB&I - Lexana 11206 Thompson Avenue Lenexa, KS 66219 10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

Work Order: HS14050974

Laboratory Results for: Former GST Steele PCB 148313

Dear Mark,

ALS Environmental received 4 sample(s) on May 22, 2014 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Dayna.Fisher
Bethany McDaniel
Project Manager

Bethany M. Daniel

| ALS | Group | USA, | Corp |
|-----|-------|------|------|
|-----|-------|------|------|

Client:

CB&I - Lexana

| | SAMPLE SUMM | MARY |
|----------|-------------------|------|
| Date | Date Received | Hold |
| 14 09:45 | 22-May-2014 09:00 | |

Date:

04-Jun-14

| Project: Work Order: | Former GST Steele PCB 148313 HS14050974 | | | | SAMPLE SUMN | IARY |
|-----------------------------|--|-------------|-------|-------------------|-------------------|------|
| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
| HS14050974-01 | GW-2 | Groundwater | | 21-May-2014 09:45 | 22-May-2014 09:00 | |
| HS14050974-02 | GW-2F | Groundwater | | 21-May-2014 10:00 | 22-May-2014 09:00 | |
| HS14050974-03 | GW-1 | Groundwater | | 21-May-2014 10:25 | 22-May-2014 09:00 | |
| HS14050974-04 | GW-1F | Groundwater | | 21-May-2014 10:35 | 22-May-2014 09:00 | |

Date:

CASE NARRATIVE

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order:

HS14050974

Batch 82341, PCBs by Method SW8082, Insufficient sample to perform MS/MSD. LCS/LCSD provided as batch quality control.

04-Jun-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050974

Sample ID:

GW-2

Lab ID:HS14050974-01

Collection Date:

21-May-2014 09:45

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|--------|---------------|-----------------|----------------------|--------------------|----------------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW35100 2014 | C/3665A / 27-Ma | ^{y-} Analyst: JLJ |
| Aroclor 1016 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1221 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1232 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1242 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1248 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1254 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Aroclor 1260 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:05 |
| Surr: Decachlorobiphenyl | 96.4 | | 54-140 | %REC | 1 | 28-May-2014 14:05 |
| Surr: Tetrachloro-m-xylene | 95.3 | | 53-137 | %REC | 1 | 28-May-2014 14:05 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Sample ID: Collection Date:

GW-2F

21-May-2014 10:00

ANALYTICAL REPORT

WorkOrder:HS14050974

Lab ID:HS14050974-02

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|--------|--|-----------------|--------------|--------------------|-------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW35100 | C/3665A / 27-Ma | Analyst: JLJ |
| Aroclor 1016 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Aroclor 1221 | , ND | can in the definition of the desired and the desired and the desired and antition of the desired and the desir | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Aroclor 1232 | ND | | 0.500 | ug/L. | 1 | 28-May-2014 14:20 |
| Aroclor 1242 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Aroclor 1248 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Aroclor 1254 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Aroclor 1260 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:20 |
| Surr: Decachlorobiphenyl | 108 | | 54-140 | %REC | 1 | 28-May-2014 14:20 |
| Surr: Tetrachloro-m-xylene | 104 | | 53-137 | %REC | 1 | 28-May-2014 14:20 |

04-Jun-14

Client:

CB&I - Lexana

ANALYTICAL REPORT

Project:

Former GST Steele PCB 148313

WorkOrder:HS14050974

Sample ID:

GW-1

Lab ID:HS14050974-03

Collection Date:

21-May-2014 10:25

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|--------|---|-----------------|--------------|--------------------|-----------------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW35100 | C/3665A / 27-Ma | ^{iy-} Analyst: JLJ |
| Aroclor 1016 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1221 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1232 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1242 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1248 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1254 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Aroclor 1260 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:35 |
| Surr: Decachlorobiphenyl | 106 | NA & 1. (1976) - 1848 & 1966 (1986) - 1967 (1986) & 1978) (1986) - 1971 | 54-140 | %REC | 1 | 28-May-2014 14:35 |
| Surr: Tetrachloro-m-xylene | 102 | | 53-137 | %REC | 1 | 28-May-2014 14:35 |

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Sample ID: Collection Date:

GW-1F

21-May-2014 10:35

ANALYTICAL REPORT

WorkOrder:HS14050974 Lab ID:HS14050974-04

Matrix:Groundwater

| ANALYSES | RESULT | QUAL | REPORT Limit | UNITS | DILUTION FACTOR | DATE ANALYZED |
|----------------------------|--------|--|-----------------|----------------------|--------------------|-----------------------------|
| PCBS BY SW8082A | | Method:SW8082 | | Prep:SW35100 2014 | C/3665A / 27-Ma | ^{ay-} Analyst: JLJ |
| Aroclor 1016 | ND | TREALINES ANTHER FOLLANDE IN A CONTINUE FOR MARKY DE CARTON RESIDENCES IN MINISTER | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1221 | ND | ************************************** | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1232 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1242 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1248 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1254 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Aroclor 1260 | ND | | 0.500 | ug/L | 1 | 28-May-2014 14:50 |
| Surr: Decachlorobiphenyl | 89.1 | | 54-140 | %REC | 1 | 28-May-2014 14:50 |
| Surr: Tetrachloro-m-xylene | 85.7 | | 53-137 | %REC | 1 | 28-May-2014 14:50 |

Date:

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

DATES REPORT

WorkOrder: HS14050974

| Sample ID | Client Samp ID | Collection Date | TCLP Date | Prep Date | Analysis Date | DF |
|----------------|----------------|-------------------|--------------|-------------------|-------------------|----|
| Batch ID 82341 | Test Name | : PCBS BY SW8082A | LENG A TOTAL | Matrix: | Groundwater | |
| HS14050974-01 | GW-2 | 21 May 2014 09:45 | | 27 May 2014 13:50 | 28 May 2014 14:05 | 1 |
| HS14050974-02 | GW-2F | 21 May 2014 10:00 | | 27 May 2014 13:50 | 28 May 2014 14:20 | 1 |
| HS14050974-03 | GW-1 | 21 May 2014 10:25 | | 27 May 2014 13:50 | 28 May 2014 14:35 | 1 |
| HS14050974-04 | GW-1F | 21 May 2014 10:35 | | 27 May 2014 13:50 | 28 May 2014 14:50 | 1 |

04-Jun-14

Client:

CB&I - Lexana

WorkOrder:

HS14050974

Project: Former GST Steele PCB 148313

QC BATCH REPORT

| Batch ID: 82341 | | adia. | Instru | nenti: | ECD <u>.</u> 7. | | Metho | d: SW808 | 2 | | |
|---------------------------------------|------------|---------------|----------------|---------------------------------------|----------------------------|--------------------------------|---|------------------------------------|---------------------------|-----------------------|-----------|
| MBLK | Sample ID: | MBLK-82341 | | | Units: t | ıg/L | Ana | lysis Date: | 28-May-201 | 4 13:20 | |
| Client ID: | | | Run ID: | ECD_7_2 | 234827 | SeqNo: | 2862526 | PrepDate: | 27-May-201 | 4 DF | :1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | | ND | 0.500 | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Aroclor 1221 | | ND | 0.500 | <u>.</u> | | | | | | | |
| Aroclor 1232 | | ND | 0.500 | | | | | | | | |
| Aroclor 1242 | | ND | 0.500 | | | | | | | | |
| Aroclor 1248 | | ND | 0.500 | | | | | | | | |
| Aroclor 1254 | | ND | 0.500 | | ············· | | | | | | |
| Aroclor 1260 | | ND | 0.500 | | | | | | | | |
| Surr: Decachlorobi | phenyl | 0.1669 | 0.0500 | 0.2 | 0 | 83.5 | 54 - 140 | | | | |
| Surr: Tetrachloro-n | n-xylene | 0.1635 | 0.0500 | 0.2 | 0 | 81.7 | 53 - 137 | | | | |
| LCS | Sample ID: | LCS-82341 | | | Units: u | ıg/L | Ana | lysis Date: | 28-May-201 | 4 13:35 | |
| Client ID: | | | Run ID: | ECD_7_2 | 34827 | SeqNo: | 2862527 | PrepDate: | 27-May-201 | 4 DF: | 1 |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | - | 4.444 | 0.500 | 5 | 0 | 88.9 | 54 - 138 | • | | | |
| Arodor 1260 | | 4.305 | 0.500 | 5 | 0 | 86.1 | 57 - 136 | | , | | |
| Surr: Decachlorobi | phenyl | 0.1863 | 0.0500 | 0.2 | 0 | 93.1 | 54 - 140 | | | | |
| Surr: Tetrachloro-n | n-xylene | 0.1811 | 0.0500 | 0.2 | 0 | 90.6 | 53 - 137 | | | | |
| | | | | | Units: ı | ia/l | Ana | lysis Date: | 28-May-201 | 4 13:50 | |
| LCSD | Sample ID: | LCSD-82341 | | | Office. I | ıyı L | | | | | |
| LCSD Client ID: | Sample ID: | LCSD-82341 | Run ID: | ECD_7_2 | | _ | 2862528 | PrepDate: | 27-May-201 | | :1 |
| | Sample ID: | Result | | ECD_7_2 | | _ | | PrepDate: RPD Ref Value | 27-May-201 %RPD | | 1 Qual |
| Client ID: | Sample ID: | | | SPK Val | 234827 SPK Ref | SeqNo: | 2862528 Control | RPD Ref | | 4 DF: | |
| Client ID: Analyte | Sample ID: | Result | PQL | SPK Val | 234827 SPK Ref Value | SeqNo: | 2862528 Control Limit | RPD Ref Value | %RPD | 4 DF: RPD Limit | |
| Client ID: Analyte Aroclor 1016 | | Result | PQL 0.500 | SPK Val | SPK Ref Value | SeqNo: %REC 90.6 | 2862528 Control Limit | RPD Ref Value 4.444 | %RPD 1.89 | 4 DF RPD Limit | |
| Analyte Aroclor 1016 Aroclor 1260 | phenyl | 4.529 4.47 | 0.500 0.500 | 5 5 0.2 | SPK Ref Value | SeqNo: %REC 90.6 89.4 | 2862528 Control Limit 54 - 138 57 - 136 | RPD Ref Value 4.444 4.305 | %RPD 1.89 3.75 | PPD Limit 20 20 | |

The following samples were anayzed in this batch: HS14050974-01

HS14050974-02

HS14050974-03

HS14050974-04

Date:

04-Jun-14

Client:

CB&I - Lexana

Project: WorkOrder:

Former GST Steele PCB 148313

HS14050974

QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|------------|---|
| * | Value exceeds Regulatory Limit |
| а | Not accredited |
| В | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H . | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| М | Manually integrated, see raw data for justification |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| 0 | Sample amount is > 4 times amount spiked |
| Р | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| • | |

| Acronym | Description |
|---------|-------------------------------------|
| DCS | Detectability Check Study |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS . | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitaion Limit |
| SD | Serial Dilution |

 $\begin{tabular}{lll} $Unit Reported & Description \\ $\mu g/L$ & Micrograms per Liter \\ \end{tabular}$

CERTIFICATIONS, ACCREDITATIONS & LICENSES

| Agency | Number | Expire Date |
|-----------------|------------------------|-------------|
| Arkansas | AR - 2014 | 27-Mar-2015 |
| California | 06248CA 2013-2014 | 31-Jul-2014 |
| Dept of Defense | L2231 Rev 3-20-2014 | 22-Dec-2015 |
| Illinois | 003403 | 09-May-2015 |
| Kansas | E-10352 8/15/2013-2014 | 31-Jul-2014 |
| Kentucky | KY 2014-2015 | 30-Apr-2015 |
| Louisiana | 03087 2013/2014 | 30-Jun-2014 |
| North Carolina | 624 - 2014 | 31-Dec-2014 |
| North Dakota | R-193 2025 | 30-Apr-2015 |
| Oklahoma | 2013-024 | 31-Aug-2014 |
| Texas | TX104704231-14-13 | 30-Apr-2015 |

Date:

04-Jun-14

Client:

CB&I - Lexana

Project:

Former GST Steele PCB 148313

Work Order:

HS14050974

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|-----------------|--------|--------------|
| HS14050974-01 | GW-2 | Login | 24-May-14 01:08 | DRC | 26A |
| HS14050974-02 | GW-2F | Login | 24-May-14 01:08 | DRC | 26A |
| HS14050974-03 | GW-1 | Login | 24-May-14 01:08 | DRC | 26A |
| HS14050974-04 | GW-1F | Login | 24-May-14 01:08 | DRC | 26A |

04-Jun-14

| | | | | | Sample Re | ceipt Checklist |
|--|---|---------------------|---|---------------------------|---|---------------------|
| Client Name: CBI-Lexa Work Order: HS14050 | | | | Fime Received: ved by: | 22-May-201 JDE | 4 09:00 |
| Checklist completed by: | Dana.Capps eSignature | 24-May-2014 Date | Reviewed by: | Bethany MoeSignature | cDaniel | 28-May-2014 Date |
| Matrices: <u>Wat</u> | er | | Carrier name: | <u>FedEx</u> | | |
| Shipping container/cooler Custody seals intact on sh Custody seals intact on sa Chain of custody present? Chain of custody signed w Chain of custody agrees w Samples in proper contair Sample containers intact? Sufficient sample volume All samples received withi Container/Temp Blank ter | nipping container/cooler? ample bottles? when relinquished and receive with sample labels? ner/bottle? for indicated test? in holding time? | ed? | Yes V | No | Not Present Not Present Not Present | |
| Temperature(s)/Thermom | eter(s): | | 1.2/1.2 C/U | bosoni | T - | IR3 |
| Cooler(s)/Kit(s): | | | 3106 | | | |
| Date/Time sample(s) sent | to storage: | | 05/24/2014 | | | |
| Water - VOA vials have ze | ero headspace? | | Yes | No | No VOA vials sub | omitted 🗸 |
| Water - pH acceptable up | on receipt? | | Yes | No | N/A | |
| pH adjusted? | | | Yes | No | N/A 🔽 | = 1 = |
| pH adjusted by: | | | | | | |
| Login Notes: | | | | | | |
| Client Contacted: | D | ate Contacted: | | Person Cor | ntacted: | |
| Contacted By: 0 | R | egarding: | | | | |
| Comments: | | | | | . 6 | |
| | | | | - | | |
| Corrective Action: | | | | | | |

ALS Laboratory Group

10450 Stancfiff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887

Chain of Custody Form

CB&I - Lexans

| e / of _ /_ | Former GST Steele PCB 148313 |
|---|------------------------------|
| To anything the second | |
| I.C. Ductout Statement | |

| | Customer Information | | Dec | ject Informa | La Floject | manuger. | 3000 | | | | | | | ! | |
|--|---|---|--------------|-------------------------|----------------|-----------|-----------------------|------------|-------------|--|--|---------------------------------------|--|-------------|--------|
| Purchase Order | | Project N | | | ~~~~ | 7 / | A . | D/R | | <u> </u> | 77 | | | | |
| The same of the same | 840738 | 550000000000000000000000000000000000000 | - F | ermin | 657 6 | Huli | F -2 | PCB | | 700 | <u> </u> | | | | |
| Work Order | | Project Nur | | 18313 | | | В | i | · | | | | | | |
| Company Name | CBI - Lenuxa | Bill To Com | | 8+I | | | C | | | | | · | | | |
| Send Report To | Mark Finnly | Invoice | Attn | I/P | | | D | | | | | | | | |
| Esta de la compa | 11206 Thompson. | Au | 454 | | | | E | | | | | | | | |
| Address | | Add | ress | | | | F | | | | | | | | |
| City/State/Zip | Canera, KS bli | /C City/State | /Zip | | | | G | · | · | | | | | | |
| Phone | , - | | ione | | | | н | | | | | | | | |
| Fex | 913-317-3591 | | 1000 | | | · | | | | | | | | | |
| | | | Fax | | | 4 | | | | | | | | | |
| e-Mail Address | ma-k-f-nacy B Cbi , Sample Description | e-Mail Add | | ייסטוני. | | | ل | | 1 | | | | To: -2 | | |
| | | | Time | Matrix | Pres. | # Bottles | ^ | BC | D | E | F G | · · · · · · · · · · · · · · · · · · · | | gJ g lagh | ioid 🦠 |
| 1 6W- 2 6W- 3 6W- | | 5/21/14 | 0945 | GW | 8 | | $\langle \lambda $ | | \perp | | | | | | |
| 2 6W- | af | | 1000 | 5 CW | 8 | 1 | X. | <u>→</u> > | F | cla | F | He | 10 | d | |
| 3 6W- | 1 | | 1025 | - 50 | 18 | 1 | X | | | | | | | | |
| 4 6W- | .1F | V | 1035 | | 8 | 1 | 7 | > | Pic | 4 | F, H | MA C | 1 | | |
| 5 | <u></u> | | | | | | | | | , | | | | | |
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| 8 | | | | 1 | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | 1 | | | | | | | | | |
| Sampler(s) Please P | rint & Sign | Shipme | nt Method | Req | ulred Turnero | | and the second | xx) □ OI | her | | | Resuits I | Due Date |): | : |
| Pollowish | Brungardt & | | | | STD 10 Wk Days | 5 W | | □2 Wk | Days | □ 24 | Hour | | | | |
| Refinquished by: | 3/31/19 | / Time: /200 | Received by | | | | Notes: | | | | ······································ | | - | .,, | |
| Relinquished by: Date: 3/1/4 Time: Received the Property of t | | | received by | chived by (Laboratorid; | | | Cooler ID Cooler Temp | | | | | | | | |
| .ogged by (Laboratory | .oggåd by (Laborstory): Date: Time: Checl | | | ecked by (Laboratory): | | | | | | ☐ Level II Std QC ☐ TRRP Checklist☐ Level III Std QC/Raw Date☐ TRRP Level IV | | | | | |
| Prosperative Kee | 1-HCI 2-HNO 3-H SO 4 | NeOH 5-No.S.O | 6-NaH | SO 7.0% | 8-4°C | 0.5035 | | | | _ | wel IV SW84 | 6/CLP | | | , |

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2008 by ALS Laboratory Group.

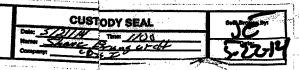
17K# 8052 9842 3890

NC SGRA

THU - 22 MAY 10:30A PRIORITY OVERNIGHT

> 77099 TX- US IAH





Appendix C
Waste Manifests

JOHNSON COUNTY LANDFILL Date: 7/31/13 REPRINTED Ticket# 963329 PO BOX 3249
Operator PSHAFER_JC SHAWNEE PO BOX 3249 In: SHAWNEE KS 66203 Out: 1:34 PM 1:34 PM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

Cust# 56-0001144 Vehl: FW-0002 Tare: 22400

MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

 Material
 Gross Wgt
 Tare Wgt
 Net Wgt
 Qty
 Amount

 SW-CONTAMINATED SOIL
 36780
 LB 1 22400
 LB T 14380
 LB 7.19 TN
 201.32

Total- 201.32

Driver Printed Name____ Driver Signature Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

REPRINTED JOHNSON COUNTY LANDFILL Date: 7/31/13 Ticket# 963396 Operator PSHAFER_JC PO BOX 3249 In: 2:31 PM KS 66203 Out: SHAWNEE 2:31 PM

PO#: NA Origin: KANSAS CITY-JAC Auth#: 13188

Manifest: NA

Cust# 56-0001144 Vehl: FW-0003 Tare: 32860

MILE RAIL Cont:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Gross Wgt Tare Wgt Net Wgt Qty Amount Material SW-CONTAMINATED SOIL 61800 LB 1 32860 LB T 28940 LB 14.47 TN 405.16

Total- 405.16

Tare:

Driver Signature_____ Driver Printed Name_ Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

REPRINTED JOHNSON COUNTY LANDFILL Date: 8/01/13
Ticket# 963786 PO BOX 3249 In: 9:00 AM
Operator PSHAFER_JC SHAWNEE KS 66203 Out: 9:00 AM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Material Gross Wgt Tare Wgt Net Wgt Qty Amount SW-CONTAMINATED SOIL 83660 LB 1 32860 LB T 50800 LB 25.40 TN 711.20

Total - 711.20

32860

Driver Signature Driver Printed Name Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

 REPRINTED
 JOHNSON COUNTY LANDFILL
 Date:
 8/01/13

 Ticket# 963842
 PO BOX 3249
 In:
 10:12 AM

 Operator PSHAFER_JC
 SHAWNEE
 KS 66203
 Out:
 10:12 AM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Material Gross Wgt Tare Wgt Net Wgt Qty Amount SW-CONTAMINATED SOIL 65540 LB 1 36420 LB T 29120 LB 14.56 TN 407.68

Total- 407.68

Driver Signature Driver Printed Name
Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale

*

JOHNSON COUNTY LANDFILL Date: 8/01/13 PO BOX 3249 In: 11:18 AM
 REPRINTED
 JOHNSON COUNTY LANDFILL
 Date:
 8/01/13

 Ticket# 963905
 PO BOX 3249
 In:
 11:18 AM

 Operator PSHAFER_JC
 SHAWNEE
 KS 66203
 Out:
 11:18 AM
 REPRINTED

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

Cust# . 56-0001144 Vehl: FW-0003 Tare: 32860

MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

 Material
 Gross Wgt
 Tare Wgt
 Net Wgt
 Qty
 Amount

 SW-CONTAMINATED SOIL
 68080
 LB 1 32860
 LB T 35220
 LB 17.61 TN
 493.08

Total- 493.08

REPRINTED JOHNSON COUNTY LANDFILL Date: 8/01/13 Ticket# 964004 PO BOX 3249 In:
Operator PSHAFER_JC SHAWNEE KS 66203 Out: In: 1:00 PM Out: 1:00 PM

Origin: KANSAS CITY-JAC PO#: NA Auth#: 13188

Manifest: NA

Cust# 56-0001144 Vehl: MS-0007 Tare: 36420 MILE RAIL Cont: Tare:

8116 WILSON RD

KANSAS CITY MO 64125

Comment:

Gross Wgt Tare Wgt Net Wgt Qty Amount Material SW-CONTAMINATED SOIL 62620 LB 1 36420 LB T 26200 LB 13.10 TN 366.80

Total- 366.80

Driver Signature _____ Driver Printed Name___ Weight Codes: M=Manual, T=Stored Tare, 1/2 = Scale



| Plea | 150 J | rint or type. (Form desig | ned for use on elite (12-pitch) type | evriter.) | | | | | | | Approved. | OMB No. 2 | 050-0039 |
|---------------------|------------|--|--|-----------------------------|---------------------------------------|---------------------|-----------------------------|----------------|-------------------------------|---------------------|--------------------------------|-----------------|----------|
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| \parallel | 5. (| enerator's Name and Mailin ENOVO GROUP | ng Address JOHN KUPAR | | | Generator M I L. | rs Sile Address (i RAIL | f different th | an mailing address JOHN M. |) Kupi | RR | | |
| | | 1302 W RANDO CHICAGO, IL | 60607-1514 | | | KANS | WILSÓN SAS CITY | , MO | 64125-13 | 327 | | | |
| $\ \ $ | Ger | (3 Jerator's Phone: | 12)733-9370 | | | GEN: | 133926 | | | | | | |
| $\ $ | | ransporter 1 Company Nam IAZMAT RESPO | • | | | | | | U.S. EPAID NO KSD98 | | ስ <i>ለማ</i> | | |
| $\ $ | | ransporter 2 Company Nam | | | | | | | U.S. EPA ID No | | U47 | | |
| | L | | | | | | | | | | | | |
| | | | 'IRONMENTAL SERVI | CES | | | | | U.S. EPA ID N | nuper | | | |
| 11 | | 1370 W COUNT ROACHDALE. I | Y ROAD 1275 N N 46172-9593 | | | | | | IND98 | 30503 | B 9 0 | | |
| $\ $ | | lity's Phone: (7 | 65)435-2704 | <u></u> | | | | | , | | | | |
| П | 9a. HW | 9b. U.S. DOT Descript and Packing Group (if | ion (including Proper Shipping Name, H any)) | lazard Class, ID Number, | | ŀ | 10. Contain | ers Type | 11. Total Quantity | 12. Unit WL/Vol. | 13.1 | Nasle Code: | , |
| | | 1. | | | | | | | | | | | |
| GENERATOR | X | SOLID,9,PG | 32.POLYCHLORINAT HII.(PCB REMEDIA H),ERG#171 | TION WASTE | -'soil | ١, | 1 | CM | מתחחל | ĸ | | | |
| R | ┝ | $\langle RQ = 1 LB \rangle$ |),ERG#171 | | · · · · · · · · · · · · · · · · · · · | | | | 1000 | | | | |
| 뜅 | | | | | | 1 | | | | | | | |
| $\ \cdot\ $ | <u> </u> - | 3. | | | | | | | | | | | |
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| | L | 1 | | | | | | | | | | | |
| | | 4. | | | | | | • |] | | | | |
| | L | | | | | | | | <u>'</u> | <u> </u> | | | |
| | | | ns and Additional Information _T#6136308 | | <u>y</u> . | _ | | | | | of 10 | 300 | 165 |
| П | E | ARLIEST DATE | _T#6136308 C OF REMOVAL FROM | SERVICE | 813 | 51 | 2013 | | | | | | |
| | ł | • | OR'S CERTIFICATION: I hereby decla | | | | | | ERI:HERI | | | 37071 | |
| | 15. | marked and labeled/placa | arded, and are in all respects in proper | condition for transport acc | cording to appl | icable inte | mational and natio | onal govern | mental regulations. | if export si | e, and are da nipment and I | am the Prim | ageo, |
| | L | I certify that the waste mi | contents of this consignment conform nimization statement identified in 40 CF | R 262.27(a) (If I am a lar | ge quantily ge | nerator) or | (b) (if I am a sma | ll quantity g | eneralor) is true. | | · · | | Va a a |
| | Ge | nerator's/Offeror's Printed/T | yped Name | |) | gnature | hort | أركما | WR1 | | - Ma | oth Day 18 5 | Year 13 |
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| | 18 | . Alternate Facility (or Gen | eralor) | | | М | anifest Reference | Number: | U.S. EPAID | Number | | | |
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| | 5. Generator's Name and DENOVO GR 1302 W RA |)UP / | ' JOHN KU | PAR | | | MILE 8116 | RAIL, | LLC / | an mailing address M NHOU | KUP | AR | | |
| | CHICAGO, IL 60607-1514 Generator's Phone: (312)733-9370 GEN: 133926 KANSAS CITY, NO 64125-1327 GEN: 133926 | | | | | | | | | | | | | |
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| UP F | Facility's Phone: 18c. Signature of Alterna | le Facility | (or Generator) | | | | | | | <u> </u> | | M | onth Da | y Year |
| NATE | and and an experience | i uviity | / onividual) | | | | | | | | | | | |
| ESIG | 19. Hazardous Waste R | port Man | | | rdous waste trea | | al, and recyc | ling systems) | | 14 | | | | |
| | | | H132 | | | 3. | | | | 4. | | | | |
| | 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the granifest except as picted in literal 1/2 Printed/Typed Name Month Day Year | | | | | | | | | | | | | |
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Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone 000551529WAS WASTE MANIFEST M00000031823 (800)326-1221 Generator's Name and Malling Address
DENOVO GROUP / JOHN KUPAR
1302 W RANDOLPH ST
CHICAGO, IL 60607-1514
(312)733-9370 Senerator's Site Address (if different than mailing address) MILE RAIL, LLC / JOHN M. KUPAR 8116 WILSON RD KANSAS CITY, MO 64125-1327 GEN: 133926 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number PAD987347515 U.S. BULK TRANSPORT, INC 7. Transporter 2 Company Name U.S. EPAID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number Designate racing Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES
4370 W COUNTY ROAD 1275 N
ROACHDALE, IN 46172-9593
acting's Phone: (765)435-2704 IND980503890 Facility's Phone: 10, Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 13. Waste Codes Quantity WLJVol. НМ No. Type RO,UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE - SOIL), (RO = 1 LB), ERG#171 20,00Q X 1 DT K GENERATOR M 19900/09 (43280/b) 14. Special Handling Instructions and Additional Information 1.W1_Q710401_T#6117998 EARLIEST DATE OF REMOVAL FROM SERVICE 07 / 31 / 13 009-01-13 ERI:HERITAGE [3692646]G 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged. marked and labeled/glacarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Day Generator's/Offeror's Printed/Typed Name Shane Brun sandt for Mik Rai 07131 1.3 16. International Shipments __ Export from U.S. Port of entry/exit: _import to U.S. Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transpode Printed/Typed Name Month orter Z Printed/Typed Name Signature 18a. Discrepancy Indication Space Type Residue Partial Rejection Full Rejection Quantity Manifest Reference Number U.S. EPA ID Number 18b, Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Day 19. Hezardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H132 20. Designated Facility Owner or Operator: Cartification of receipt of hazardous materials covered by the manifest except as noted in Item 18 Day Printed/Typed Name 10/8/01 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED) EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

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| | 15. | GENERATOR'S/OFFEROR | R'S CERTIFICATIO | N: I hereby dec | clare that the contents of | this consignment a | are fully and | d accurately des | cribed above | by the proper shi | nning name | and are class | oifind packs | agod |
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| Н | Gene | I certify that the waste minir erator's/Offeror's Printed/Typ | nization statement ed Name | identified in 40 (| CFR 262.27(a) (if I am a | | erator) or (b nature |) (if I am a smal | l quantity ger | nerator) is true. | | Mont | h Day | Year |
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| 띩 | 19. Ha | azardous Waste Report Mar | agement Method (| Codes (i.e., code | es for hazardous waste tr | eatment, disposal, | and recycl | ing systems) | | | | | | |
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| 11 | 20. De | esignated Facility Owner or | | ion of receipt of | hazardous materials cov | rered by the manife | est except a | as noted in Item | 18a | | | | · · | |
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| | · . () | enerator's Name and Maili ENOVO GROUP | 7 JOHA | Kubak | | | Generator's | Site Address | (if different t | han mailing addres | s) 。KUP | ΛĦ | | |
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| | 9a. HM | 9b. U.S. DOT Descript and Packing Group (if | | r Shipping Name, H | azard Class, ID Number | | | 10. Contair | ners Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. | Waste Codes | 3 |
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| ≍ | 119. H | azardous Waste Report M | anagement Method | Codes (i.e., codes | for hazardous waste trea | atment, disposal | , and recycli | ng systems) | | 4. | | | | |
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| | | esignated Facility Owner or ed/Typed Name | or Operator: Certifica | ation of receipt of ha | azardous materials cove | | est except a nature | s noted in Item | 18a | · · · · · · · · · · · · · · · · · · · | · | Mo | onth Day | Year |
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| Ш | 5. G | enerator's Name and Mailin | g Address | | | | Generator's | Site Address | (if different t | han mailing addres | | | | |
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| | | esignated Facility Owner or | Operator: Certifica | ation of receipt of hazardo | us materials covere | | | s noted in Item | 18a . | | | 814. | · | |
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Appendix D

Union Pacific Railroad Company Right of Entry Agreement

CONTRACTOR'S ENDORSEMENT

Folder No. 2842-48

| • · | sor's right-of-way to perform work pursuant to this |
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| Agreement, Licensee's contractor (Fill in): | |
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| (hereinafter "Contractor") agrees to comply with all to the work to be performed and the insurance require | I the terms and provisions of this Agreement relating ements set forth in Exhibit C. |
| nonrefundable payment of \$500 upon execution and | y work, the Contractor will pay the Licensor a d return of this Contractor's Endorsement, and will s insurance carrier providing the insurance coverage tains the following type endorsement: |
| UNION PACIFIC RAILROAD COMPANY with respect to all liabilities arising out of Insured's pLicensee. | |
| All insurance correspondence shall be directed to: J Railroad Company, 1400 Douglas Street STOP 1690 | Justin K. Mahr - Folder No. 2842-48, Union Pacific , Omaha, Nebraska 68179-1690. |
| | (Please print Contractor's Name above) |
| | (F Community 57.4445 |
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RIGHT OF ENTRY AGREEMENT

THIS AGREEMENT is made and entered into as of December 11, 2013, by and between UNION PACIFIC RAILROAD COMPANY, a Delaware corporation (hereinafter the "Railroad"), and MILE RAIL, LLC, a Michigan limited liability corporation, to be addressed at 281 Woodcreek Ct., Commerce, MI 48390 (hereinafter the "Licensee").

IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

Article 1. **DEFINITION OF LICENSEE.**

For purposes of this Agreement, all references in this Agreement to the Licensee shall include the Licensee's contractors, subcontractors, officers, agents and employees, and others acting under its or their authority.

Article 2. RIGHT GRANTED; PURPOSE.

The Railroad hereby grants to the Licensee the right, during the term hereinafter stated and upon and subject to each and all of the terms, provisions and conditions herein contained, to enter upon and have ingress to and egress from the portion of Railroad's property in the vicinity of Mile Post 277.3, K.C Metro (Neff Yard), at or near Kansas City, Missouri, for the purpose of taking up to 12 soil borings & 48 subsurface/sediment samples, plus 3 ground water samples will be taken. The right herein granted to Licensee is limited to those portions of the Railroad's property specifically described herein in the location shown on the print marked Exhibit A, attached hereto and hereby made a part hereof, or designated by the Railroad Representative named in Article 4.

For the purposes of Exhibit A, Licensee acknowledges that if it or its contractor provides to Railroad digital imagery, Licensee authorizes Railroad to use the Digital Imagery in preparing the print attached as an exhibit hereto. Licensee represents and warrants that through a license or otherwise, it has the right to use the Digital Imagery and to permit Railroad to use the Digital Imagery in said manner.

Article 3. TERMS AND CONDITIONS CONTAINED IN EXHIBITS B AND C.

The terms and conditions contained in Exhibits B and C, hereto attached, are hereby made a part of this Agreement.

Article 4. <u>ALL EXPENSES TO BE BORNE BY LICENSEE;</u> RAILROAD REPRESENTATIVE.

The Licensee shall bear any and all costs and expenses associated with any work performed by the Licensee, or any costs or expenses incurred by the Railroad relating to this Agreement. All work performed by Licensee on Railroad's property shall be performed in a manner satisfactory to the representative local Manager of Track Maintenance of the Railroad or his authorized representative (hereinafter the Railroad Representative):

KYLE J. VEDDER MGR TRACK MNTCE 600 Broadway, Ste 500 Kansas City, MO 64105 Work Phone: 816-399-1374 Cell Phone: 913-940-2875

Article 5. TERM; TERMINATION.

- A. The grant of right herein made to Licensee shall commence on the date of this Agreement, and continue until December 31, 2014 unless sooner terminated as herein provided, or at such time as Licensee has completed its work on Railroad's property, whichever is earlier. Licensee agrees to notify the Railroad Representative in writing when it has completed its work on Railroad property.
- B. This Agreement may be terminated by either party on ten (10) days written notice to the other party.

Article 6. <u>CERTIFICATE OF INSURANCE.</u>

A. Before commencing any work, the Licensee will provide the Railroad with a Certificate issued by its insurance carrier providing the insurance coverage required pursuant to Exhibit C of this Agreement in a policy which contains the following type of endorsement:

"Union Pacific Railroad Company is named as additional insured with respect to all liabilities arising out of Insured's, as Licensee, performance of any work on the property of the Railroad."

- B. Licensee warrants that this Agreement has been thoroughly reviewed by its insurance agent(s)/broker(s) and that said agent(s)/broker(s) has been instructed to procure insurance coverage and an endorsement as required herein.
- C. <u>Union Pacific should be listed as certificate holder</u> and all insurance correspondence shall be directed to: Union Pacific Railroad Company, Director (Attn.: Justin K. Mahr Folder No.2842-48), 1400 Douglas Street STOP 1690, Omaha, Nebraska 68179-1690.

Article 7. PROTECTION OF FIBER OPTIC CABLE SYSTEMS.

Fiber optic cable systems may be buried on Licensor's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Prior to beginning any work, the Licensee shall telephone the Railroad at 1-800-336-9193 (a 24-hour number) to determine if fiber optic cable is buried anywhere on the property set forth herein. If it is, the Licensee shall also comply with and be subject to the provisions contained in Section 6 of Exhibit B.

Article 8. ENFORCEABILITY; CHOICE OF LAW; CHOICE OF FORUM.

This Agreement shall be governed, construed, and enforced in accordance with the laws of the state of Nebraska. Litigation arising out of or connected with this Agreement may be instituted and maintained in the courts of the state of Nebraska and Missouri only, and the parties consent to jurisdiction over their person and over the subject matter of any such litigation, in those courts, and consent to service of process issued by such courts.

Article 9. LICENSE FEE.

Licensee shall pay, and Railroad shall accept, upon the execution and return of this instrument, the nonrefundable sum of Eleven Thousand Five Hundred Dollars (\$11,500.00) to cover Railroad's cost to prepare and administer this Agreement.

Flagging charges are not included in the sum recited in the preceding paragraph, and will be billed separately, if incurred.

Article 10. CONFIDENTIALITY.

- A. The Parties acknowledge that any data, samples, test results, laboratory analyses, or other information obtained or derived from any environmental investigation or other related work performed on Railroad's Property, and all documents, reports or other information that are developed which pertain to environmental conditions on Railroad's Property (hereinafter "the Environmental Report") are confidential in nature. The Parties agree that all such information, including the Environmental Report, shall be distributed only to those officers, directors and employees of Railroad and Licensee who are authorized by the Railroad to receive such information.
- B. Government agencies that are authorized by law to obtain the Environmental Report, including any data, samples, laboratory analyses, and/or other information relied upon to develop the Environmental Report, are authorized by the Railroad to receive the Environmental Report when requested pursuant to legally applicable federal, state or local mandate. Licensee agrees that the Railroad shall be notified of any request by a federal, state or local government agency for copies of the Environmental Report and/or related information.
- C. The Licensee agrees to take all reasonable measures to assure continuous confidentiality and protection of the Environmental Report, including keeping copies to a minimum and maintaining a log that identifies each and every individual that has had access to the Environmental Report or has otherwise taken possession of the Environmental Report.
- D. Adequate instructions shall be issued by the Licensee to all affected officers, directors, employees and consultants of the Licensee as necessary to satisfy the confidentiality provisions of this Agreement.

- E. The Licensee's contractors, subcontractors, consultants, lenders, counsel and advisors, including legal counsel, that are hired to assist, conduct, prepare and/or review the Environmental Report, shall not be provided a copy of the Environmental Report and/or related information until they agree in writing to adhere to all the provisions of this Agreement.
- F. Licensee agrees that the Environmental Report, and all associated data, samples, analyses, and other information, are and shall remain the personal property of the Railroad. Upon completion of its work, Licensee agrees to turn the Environmental Report and all associated data and other information, including all copies thereof, over to the Railroad.
- G. In addition to any other remedy at law, the Parties agree that either Party shall have the right to enjoin the other Party, including the other Party's contractors, subcontractors, consultants, lenders, counsel, and/or advisors, in any court of competent jurisdiction for breach of the confidentiality provisions of this Agreement.
- H. All the terms contained in this Agreement shall survive completion of any work authorized by this Agreement, as well as any related discussions and/or negotiations. The Licensee and Railroad agree to be bound by the confidentiality provisions of this Agreement in perpetuity.

Article 11. SPECIAL PROVISION - RAILROAD FLAGMAN; WHEN REQUIRED; FLAGGING CHARGES.

- A. No work of any kind shall be performed, and no person, equipment, machinery, tool(s), material(s), vehicle(s), or thing(s) shall be located, operated, placed, or stored within 25 feet of any of Railroad's track(s) at any time, for any reason, unless and until a Railroad flagman is provided to watch for trains, pursuant to the terms of the attached Exhibit 'B'. All expenses connected with the furnishing of said flagman shall be at the sole cost and expense of the Licensee, who shall promptly pay to Railroad all charges connected therewith, within 30 days after presentation of a bill therefore.
- B. One and one-half times the current hourly rate is paid for overtime, Saturdays and Sundays; two and one-half times current hourly rate for holidays.
- C. Wage rates are subject to change, at any time, by law or by agreement between the Railroad and its employees, and may be retroactive as a result of negotiations or a ruling of an authorized Governmental Agency. Additional charges on labor are also subject to change. If the wage rate or additional charges are changed, the Licensee shall pay on the basis of the new rates and charges.
- D. Reimbursement to the Railroad will be required covering the full eight hour day during which any flagman is furnished, unless he can be assigned to other Railroad work during a portion of such day, in which event reimbursement will not be required for the portion of the day during which the flagman is engaged in other work. Reimbursement will also be required for any day not actually worked by said flagman following his assignment to work on the project for which the Railroad is required to pay the flagman and which could not reasonably be avoided by the Railroad Company by assignment of such flagman to other work, even though the Licensee may not be working during such time.
- E. Arrangements for flagging are to be made at least Thirty (30) days in advance of commencing work, with the Railroad Manager of Track Maintenance

Article 12. LICENSEE SHALL FURNISH INFORMATION TO THE RAILROAD.

Prior to entering Railroad's property, the Licensee shall also furnish to Railroad a copy of all correspondence (which shall remain a continuing obligation that includes all past and any future correspondence) with any regulatory agencies, or others, that may be involved in this project; a copy of a work plan and a location plan. Prior to the conclusion of this Agreement, the Licensee shall also furnish to the Railroad a copy of all boring logs, and all analytical results obtained hereunder; and advise the Railroad of any and all clean-up activities undertaken with respect to this project and the results and conclusion of same. All required information shall be directed to Union Pacific Railroad Company, c/o Mr. Joel Strafelda, 1400 Douglas Street, STOP 1030, Omaha, NE 68179-1030.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date first herein written.

| UNION PACIFIC RAILROAD COMPANY Federal Taxpayer I.D. #94-6001323 | MILE RAIL, LLC |
|--|----------------|
| By: | By: |
| Manager - Contracts | Title: |

(Pursuant to ordinance, resolution, or other evidence of proper authority to execute this instrument, a copy of which shall be attached to the Railroad's original counterpart of this document.)

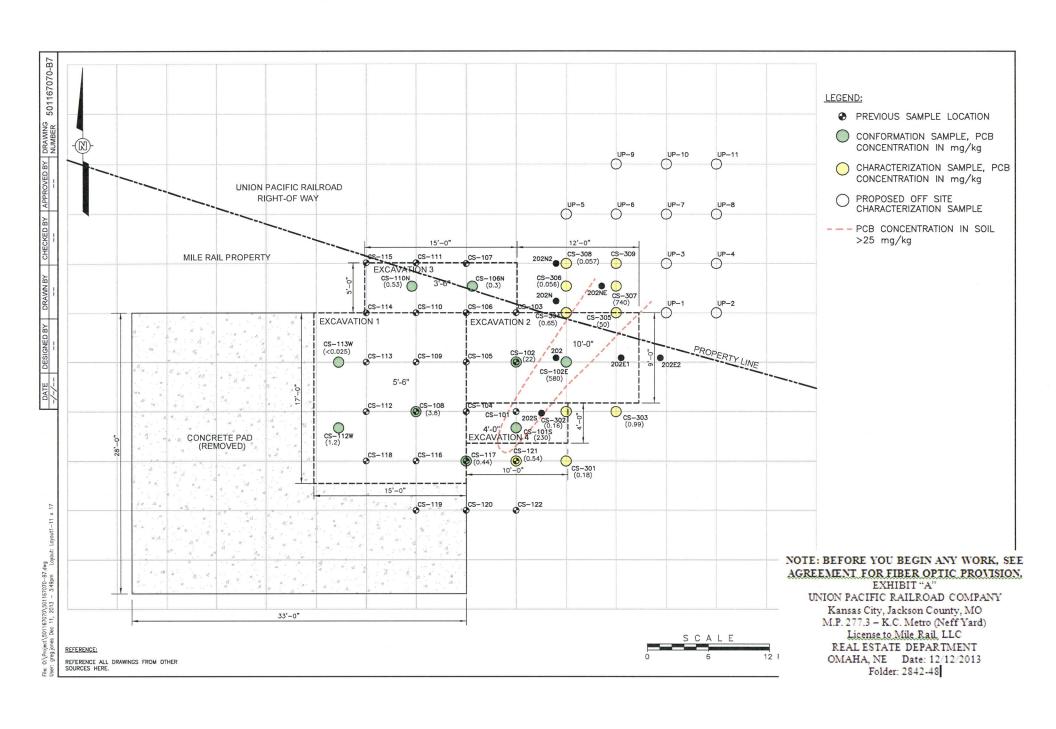


EXHIBIT B

Section 1 - NOTICE OF COMMENCEMENT OF WORK - FLAGGING.

The Licensee agrees to notify the Railroad Representative at least Ten (10) days in advance of Licensee commencing its work and at least 24 hours in advance of proposed performance of any work by the Licensee in which any person or equipment will be within 25 feet of any track, or will be near enough to any track that any equipment extension (such as, but not limited to, a crane boom) will reach to within 25 feet of any track. Upon receipt of such notice, the Railroad Representative will determine and inform the Licensee whether a flagman need be present and whether the Licensee need implement any special protective or safety measures. If any flagmen or other special protective or safety measures are performed by the Railroad, such services will be provided at Licensee's expense with the understanding that if the Railroad provides any flagging or other services, the Licensee shall not be relieved of any of its responsibilities or liabilities set forth herein.

Section 2 - LIMITATION AND SUBORDINATION OF RIGHTS GRANTED.

- a. The foregoing grant of right is subject and subordinate to the prior and continuing right and obligation of the Railroad to use and maintain its entire property including the right and power of the Railroad to construct, maintain, repair, renew, use, operate, change, modify or relocate railroad tracks, roadways, signal, communication, fiber optics, or other wirelines, pipelines and other facilities upon, along or across any or all parts of its property, all or any of which may be freely done at any time or times by the Railroad without liability to the Licensee or to any other party for compensation or damages.
- b. The foregoing grant is also subject to all outstanding superior rights (including those in favor of licensees and lessees of the Railroad's property, and others) and the right of the Railroad to renew and extend the same, and is made without covenant of title or for quiet enjoyment.

Section 3 - NO INTERFERENCE WITH RAILROAD'S OPERATION.

No work performed by Licensee shall cause any interference with the constant, continuous and uninterrupted use of the tracks, property and facilities of the Railroad, its lessees, licensees or others, unless specifically permitted under this Agreement, or specifically authorized in advance by the Railroad Representative. Nothing shall be done or suffered to be done by the Licensee at any time that would in any manner impair the safety thereof. When not in use, Licensee's machinery and materials shall be kept at least 50 feet from the centerline of Railroad's nearest track, and there shall be no crossings of Railroad's tracks except at existing open public crossings.

Section 4 - PERMITS.

Prior to beginning any work, the Licensee, at its sole expense, shall obtain all necessary permits to perform any work contemplated by this Agreement.

Section 5 - MECHANIC'S LIENS.

The Licensee shall pay in full all persons who perform labor or provide materials for the work to be performed by Licensee. The Licensee shall not create, permit or suffer any mechanic's or materialmen's liens of any kind or nature to be enforced against any property of the Railroad for any such work performed. The Licensee shall indemnify and hold harmless the Railroad from and against any and all liens, claims, demands, costs or expenses of whatsoever nature in any way connected with or growing out of such work done, labor performed, or materials furnished.

Section 6 - FIBER OPTIC CABLE SYSTEMS.

In addition to other indemnity provisions in this Agreement, the Licensee shall indemnify and hold the Railroad harmless from and against all costs, liability and expense whatsoever (including, without limitation, attorneys' fees, court costs and expenses) arising out of any act or omission of the Licensee, its contractor, agents and/or employees, that causes or contributes to (1) any damage to or destruction of any telecommunications system on Railroad's property, and (2) any injury to or death of any person employed by or on behalf of any telecommunications company, and/or its contractor, agents and/or employees, on Railroad's property. Licensee shall not have or seek recourse against Railroad for any claim or cause of action for alleged loss of profits or revenue or loss of service or other consequential damage to a telecommunication company using Railroad's property or a customer or user of services of the fiber optic cable on Railroad's property.

Section 7 - COMPLIANCE WITH LAWS.

In the prosecution of the work covered by this Agreement, the Licensee shall comply with all applicable federal, state and local laws, regulations and enactments affecting the work. The Licensee shall use only such methods as are consistent with safety, both as concerns the Licensee, the Licensee's agents and employees, the officers, agents, employees and property of the Railroad and the public in general. The Licensee (without limiting the generality of the foregoing) shall comply with all applicable state and federal occupational safety and health acts and regulations. All Federal Railroad Administration regulations shall be followed when work is performed on the Railroad's property. If any failure by the Licensee to comply with any such laws, regulations, and enactments, shall result in any fine, penalty, cost or charge being assessed, imposed or charged against the Railroad, the Licensee shall reimburse and indemnify the Railroad for any such fine, penalty, cost or charge, including without limitation attorneys' fees, court costs and expenses. The Licensee further agrees in the event of any such action, upon notice thereof being provided by the Railroad, to defend such action free of cost, charge, or expense to the Railroad.

Section 8 - SAFETY INSTRUCTIONS.

Safety of personnel, property, rail operations and the public is of paramount importance in the prosecution of the work pursuant to this Agreement. As reinforcement and in furtherance of overall safety measures to be observed by the Licensee (and not by way of limitation), the following special safety rules shall be followed:

a. The Licensee shall keep the job site free from safety and health hazards and ensure that its employees are competent and adequately trained in all safety and health aspects of the job. The Licensee shall have proper first aid supplies available on the job site so that prompt first aid services can be provided to any person that may be injured on the job site. The Licensee shall promptly notify the Railroad of any U.S. Occupational Safety and Health Administration reportable injuries occurring to any person that may arise during the work performed on the job site. The Licensee shall have a non-delegable

duty to control its employees, while they are on the job site or any other property of the Railroad to be certain they do not use, be under the influence of, or have in their possession any alcoholic beverage or illegally obtained drug, narcotic or other substance that may inhibit the safe performance of work by an employee.

- b. The employees of the Licensee shall be suitably dressed to perform their duties safely and in a manner that will not interfere with their vision, hearing or free use of their hands or feet. Only waist length shirts with sleeves and trousers that cover the entire leg are to be worn. If flare-legged trousers are worn, the trouser bottoms must be tied to prevent catching. The employees should wear sturdy and protective footwear. Employees shall not wear boots (other than work boots), sandals, canvas-type shoes or other shoes that have thin soles or heels that are higher than normal. In addition, the Licensee shall require its employees to wear personal protective equipment as specified by Railroad rules, regulations or Railroad officials overlooking the work at the job site. In particular, the protective equipment to be warn shall be:
 - (1) Protective head gear that meets American National Standard-Z89.1-latest revision. It is suggested that all hardhats be affixed with Licensee's or subcontractor's company logo or name.
 - (2) Eye protection that meets American National Standard for occupational and educational eye and face protection, Z87.1-latest revision. Additional eye protection must be provided to meet specific job situations such as welding, grinding, burning, etc.; and
 - (3) Hearing protection which affords enough attenuation to give protection from noise levels that will be occurring on the job site.
- c. All heavy equipment provided or leased by the Licensee shall be equipped with audible back-up warning devices. If in the opinion of the Railroad Representative any of Licensee's or any of its subcontractors' equipment is unsafe for use on the Railroad's right-of-way, the Licensee, at the request of the Railroad Representative, shall remove such equipment from the Railroad's right-of-way.

Section 9 - <u>INDEMNITY</u>.

- a. As used in this Section, "Railroad" includes other railroad companies using the Railroad's property at or near the location of the Licensee's installation and their officers, agents, and employees; "Loss" includes loss, damage, claims, demands, actions, causes of action, penalties, costs, and expenses of whatsoever nature, including court costs and attorneys' fees, which may result from: (i) injury to or death of persons whomsoever (including the Railroad's officers, agents, and employees, the Licensee's officers, agents, and employees, as well as any other person); and (ii) damage to or loss or destruction of property whatsoever (including Licensee's property, damage to the roadbed, tracks, equipment, or other property of the Railroad, or property in its care or custody).
- b. As a major inducement and in consideration of the license and permission herein granted, the Licensee agrees to indemnify and hold harmless the Railroad from any Loss which is due to or arises from any cause and is associated in whole or in part with the work performed under this Agreement, a breach of the Agreement or the failure to observe the health and safety provisions herein, or any activity or omission arising out of performance or nonperformance of this Agreement; regardless of whether caused solely or contributed to in part by the negligence or fault of the Railroad.

c. Any liability of either party hereunder to one of its employees under any Workers' Compensation Act or the Federal Employers' Liability Act shall not be questioned or in any way challenged by the other party, nor shall any jury or court findings, resulting from any employee's suit against either party pursuant to any such Act(s), be relied upon or used by either party in any attempt to assert common law liability against the other.

Section 10 - RESTORATION OF PROPERTY.

In the event the Railroad authorizes the Licensee to take down any fence of the Railroad or in any manner move or disturb any of the other property of the Railroad in connection with the work to be performed by Licensee, then in that event the Licensee shall, as soon as possible and at Licensee's sole expense, restore such fence and other property to the same condition as the same were in before such fence was taken down or such other property was moved or disturbed, and the Licensee shall indemnify and hold harmless the Railroad, its officers, agents and employees, against and from any and all liability, loss, damages, claims, demands, costs and expenses of whatsoever nature, arising from the taking down of any fence or the moving or disturbance of any other property of the Railroad.

Section 11 - WAIVER OF BREACH.

The waiver by the Railroad of the breach of any condition, covenant or agreement herein contained to be kept, observed and performed by the Licensee shall in no way impair the right of the Railroad to avail itself of any remedy for any subsequent breach thereof.

Section 12 - ASSIGNMENT – SUBCONTRACTING.

The Licensee shall not assign, sublet or subcontract this Agreement, or any interest therein, without the written consent of the Railroad and any attempt to so assign, sublet or subcontract without the written consent of the Railroad shall be void. If the Railroad gives the Licensee permission to subcontract all or any portion of the work herein described, the Licensee is and shall remain responsible for all work of subcontractors and all work of subcontractors shall be governed by the terms of this Agreement.

EXHIBIT C

Union Pacific Railroad Contract Insurance Requirements

Right of Entry Agreement

Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement (except as otherwise provided in this Agreement) the following insurance coverage:

A. <u>Commercial General Liability</u> insurance. Commercial general liability (CGL) with a limit of not less than \$5,000,000 each occurrence and an aggregate limit of not less than \$10,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, which must be stated on the certificate of insurance:

Contractual Liability Railroads ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

B. Business Automobile Coverage insurance. Business auto coverage written on ISO form CA 00 01 (or a substitute form providing equivalent liability coverage) with a combined single limit of not less \$2,000,000 for each accident.

The policy must contain the following endorsements, which must be stated on the certificate of insurance: Coverage For Certain Operations In Connection With Railroads ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Property" as the Designated Job Site.

- Motor Carrier Act Endorsement Hazardous materials clean up (MCS-90) if required by law.
- C. <u>Workers Compensation and Employers Liability</u> insurance. Coverage must include but not be limited to:

Licensee's statutory liability under the workers' compensation laws of the state(s) affected by this Agreement.

Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 disease policy limit \$500,000 each employee.

If Licensee is self-insured, evidence of state approval and excess workers compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

D. Railroad Protective Liability insurance. Licensee must maintain Railroad Protective Liability insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Railroad as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000. A binder stating the policy is in place must be submitted to Railroad before the work may be commenced and until the original policy is forwarded to Railroad.

- **E.** <u>Umbrella or Excess</u> insurance. If Licensee utilizes umbrella or excess policies, these policies must "follow form" and afford no less coverage than the primary policy.
- **F.** <u>Pollution Liability</u> insurance. Pollution Liability coverage must be included when the scope of the work as defined in the Agreement includes installation, temporary storage, or disposal of any "hazardous" material that is injurious in or upon land, the atmosphere, or any watercourses; or may cause bodily injury at any time.

Pollution liability coverage must be written on ISO form Pollution Liability Coverage Form Designated Sites CG 00 39 12 04 (or a substitute form providing equivalent liability coverage), with limits of at least \$5,000,000 per occurrence and an aggregate limit of \$10,000,000.

If the scope of work as defined in this Agreement includes the disposal of any hazardous or non-hazardous materials from the job site, Licensee must furnish to Railroad evidence of pollution legal liability insurance maintained by the disposal site operator for losses arising from the insured facility accepting the materials, with coverage in minimum amounts of \$1,000,000 per loss, and an annual aggregate of \$2,000,000.

Other Requirements

- G. All policy(ies) required above (except worker's compensation and employers liability) must include Railroad as "Additional Insured" using ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage). The coverage provided to Railroad as additional insured shall, to the extent provided under ISO Additional Insured Endorsement CG 20 26, and CA 20 48 provide coverage for Railroad's negligence whether sole or partial, active or passive, and shall not be limited by Licensee's liability under the indemnity provisions of this Agreement.
- **H.** Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless (a) insurance coverage may not lawfully be obtained for any punitive damages that may arise under this agreement, or (b) all punitive damages are prohibited by all states in which this agreement will be performed..
- I. Licensee waives all rights against Railroad and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the workers compensation and employers liability or commercial umbrella or excess liability insurance obtained by Licensee required by this agreement.
- J. Prior to commencing the work, Licensee shall furnish Railroad with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements in this Agreement.
- K. All insurance policies must be written by a reputable insurance company acceptable to Railroad or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the work is to be performed.
- L. The fact that insurance is obtained by Licensee or by Railroad on behalf of Licensee will not be deemed to release or diminish the liability of Licensee, including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by Railroad from Licensee or any third party will not be limited by the amount of the required insurance coverage.